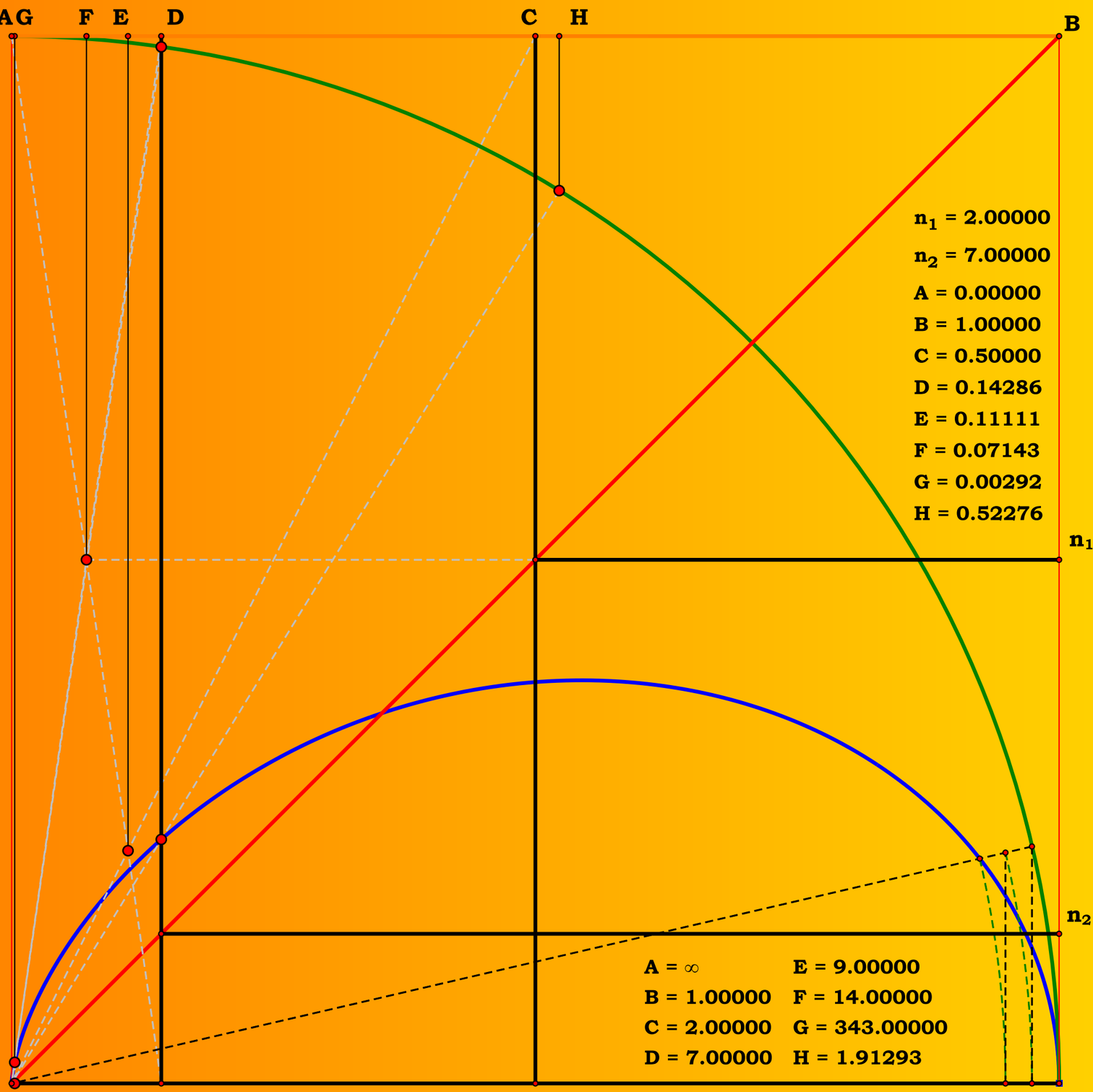


The One

2 Swords on the Moon Appendix

John Clark

2SMT1R0

Given. $A := .73042$

$n_1 := \frac{1}{A}$

Descriptions.

$bA := \sqrt{1 + A^2}$ $\quad bc := \frac{1}{bA}$ $\quad cf := \frac{bc}{bA}$

$bg := \frac{bA \cdot bc}{A}$ $\quad dg := cf$ $\quad bd := \sqrt{bg^2 + dg^2}$

$be := \frac{dg}{bd}$ $\quad B := \frac{bg \cdot be}{bd}$ $\quad B = 0.388229$

Definitions.

$$B - \frac{A^3 + A}{A^4 + 3 \cdot A^2 + 1} = 0$$

$$B - \frac{A \cdot \left(A^2 + 1\right)}{A^4 + 3 \cdot A^2 + 1} = 0$$

Unit = 1.00000

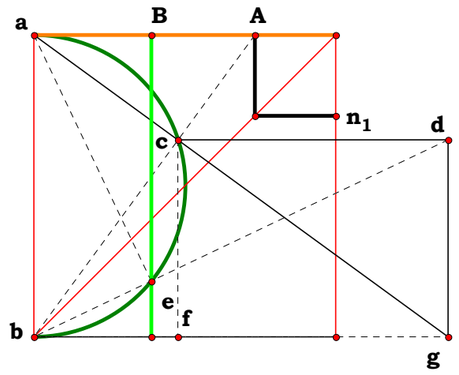
A = 0.73043

B = 0.38823

n_1 = 1.36906

$\frac{A^3+A}{A^4+3 \cdot A^2+1}$ -B = 0.00000

$\frac{{n_1}^3+n_1}{{n_1}^4+3 \cdot {n_1}^2+1}$ -B = 0.00000



Unit = 1.00000

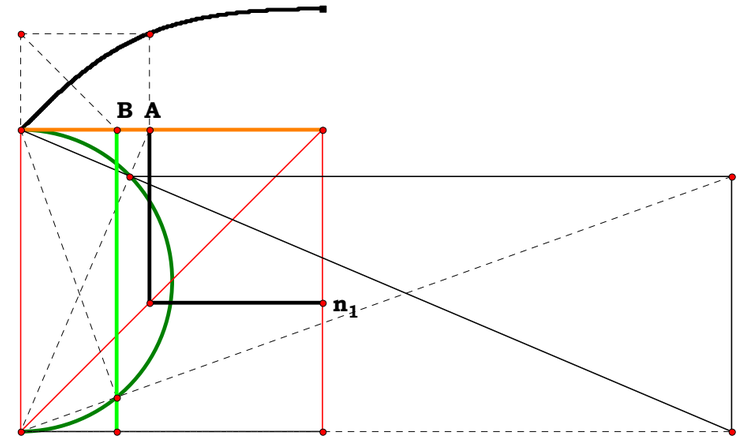
A = 0.42530

B = 0.31880

n_1 = 2.35129

$\frac{A^3+A}{A^4+3 \cdot A^2+1}$ -B = 0.00000

$\frac{{n_1}^3+n_1}{{n_1}^4+3 \cdot {n_1}^2+1}$ -B = 0.00000



2SMT1R2

Given. $A := .92051$ $B := .74655$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$

Descriptions.

$bA := \sqrt{A^2 + 1}$ $bc := \frac{1}{bA}$ $cd := \frac{bc}{bA}$

$ag := B \cdot (1 - cd)$ $bg := \sqrt{ag^2 + 1}$

$be := \frac{1}{bg}$ $C := \frac{ag \cdot be}{bg}$

$C = 0.30649$

Definitions.

$$C - \frac{A^2 \cdot B \cdot \left(A^2 + 1\right)}{A^4 \cdot B^2 + A^4 + 2 \cdot A^2 + 1} = 0$$

$$C - \frac{n_2 \cdot \left({n_1}^2 + 1\right)}{{n_1}^4 \cdot {n_2}^2 + 2 \cdot {n_1}^2 \cdot {n_2}^2 + {n_2}^2 + 1} = 0$$

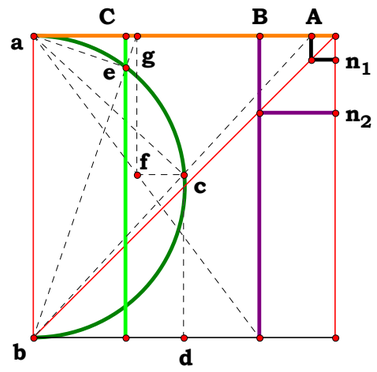
Unit = 1.00000

A = 0.92058
B = 0.74655
C = 0.30651

n_1 = 1.08627
n_2 = 1.33950

$\frac{A^2 \cdot B \cdot (A^2+1)}{A^4 \cdot B^2 + A^4 + 2 \cdot A^2 + 1} - C = 0.00000$

$\frac{n_2 \cdot ({n_1}^2+1)}{{n_1}^4 \cdot {n_2}^2 + 2 \cdot {n_1}^2 \cdot {n_2}^2 + {n_2}^2 + 1} - C = 0.00000$



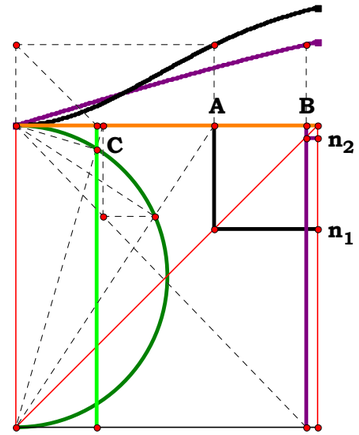
Unit = 1.00000

A = 0.65725
B = 0.95972
C = 0.26713

n_1 = 1.52148
n_2 = 1.04197

$\frac{A^2 \cdot B \cdot (A^2+1)}{A^4 \cdot B^2 + A^4 + 2 \cdot A^2 + 1} - C = 0.00000$

$\frac{n_2 \cdot ({n_1}^2+1)}{{n_1}^4 \cdot {n_2}^2 + 2 \cdot {n_1}^2 \cdot {n_2}^2 + {n_2}^2 + 1} - C = 0.00000$



2SMT1R3

Given. $A := .80984$

$n_1 := \frac{1}{A}$

Descriptions.

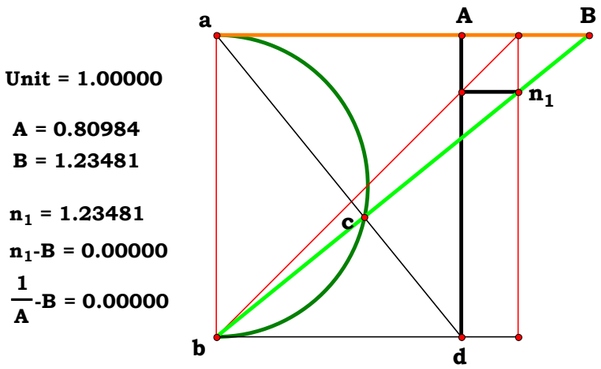
$ac := \frac{1}{\left(A^2 + 1\right)^{\frac{1}{2}}}$ $ad := \sqrt{A^2 + 1}$

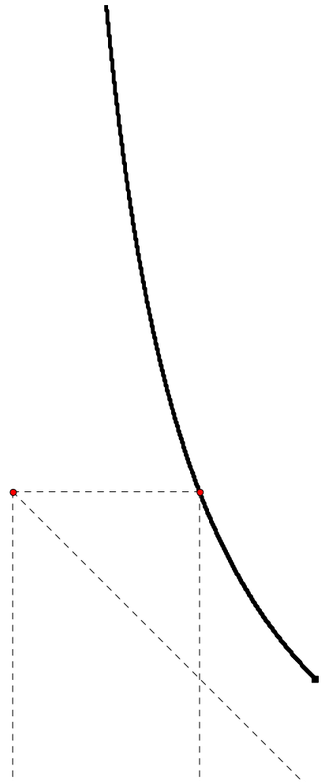
$B := \frac{ad \cdot ac}{A}$ $B = 1.234812$

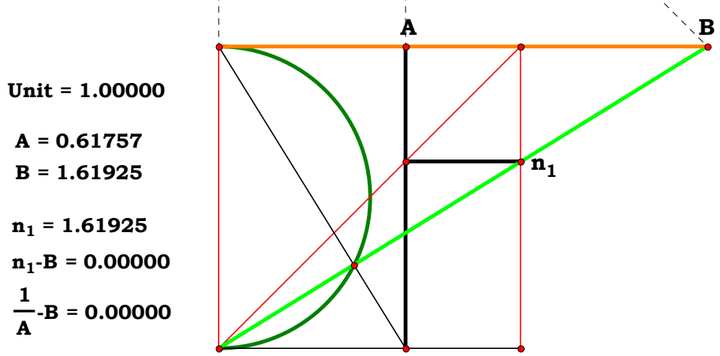
Definitions.

$B - \frac{1}{A} = 0$

$B - n_1 = 0$







2SMT1R4

Given. $A := .78265$ $B := .47904$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$

Descriptions.

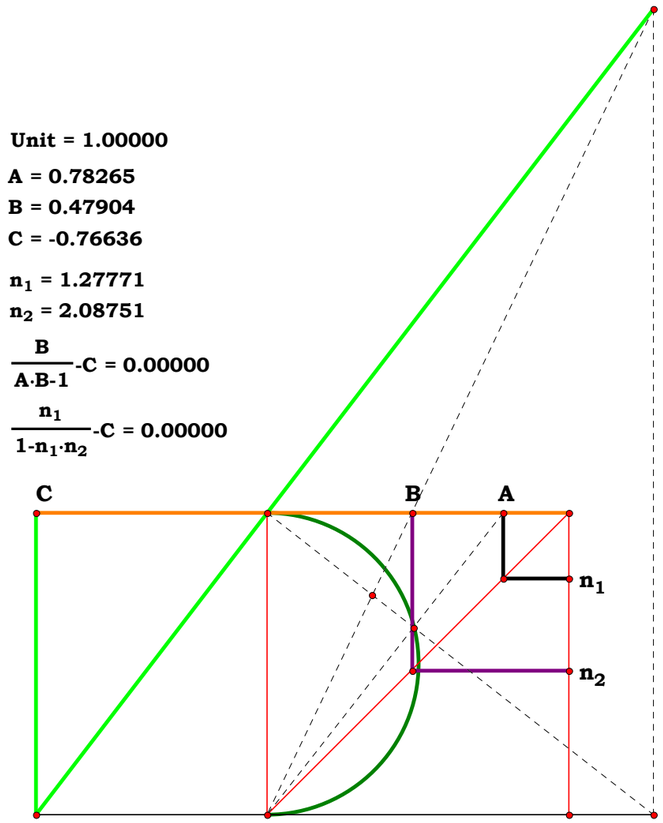
$bf := \frac{1}{A}$ $ef := \frac{bf}{B}$ $C := \frac{bf}{1 - ef}$

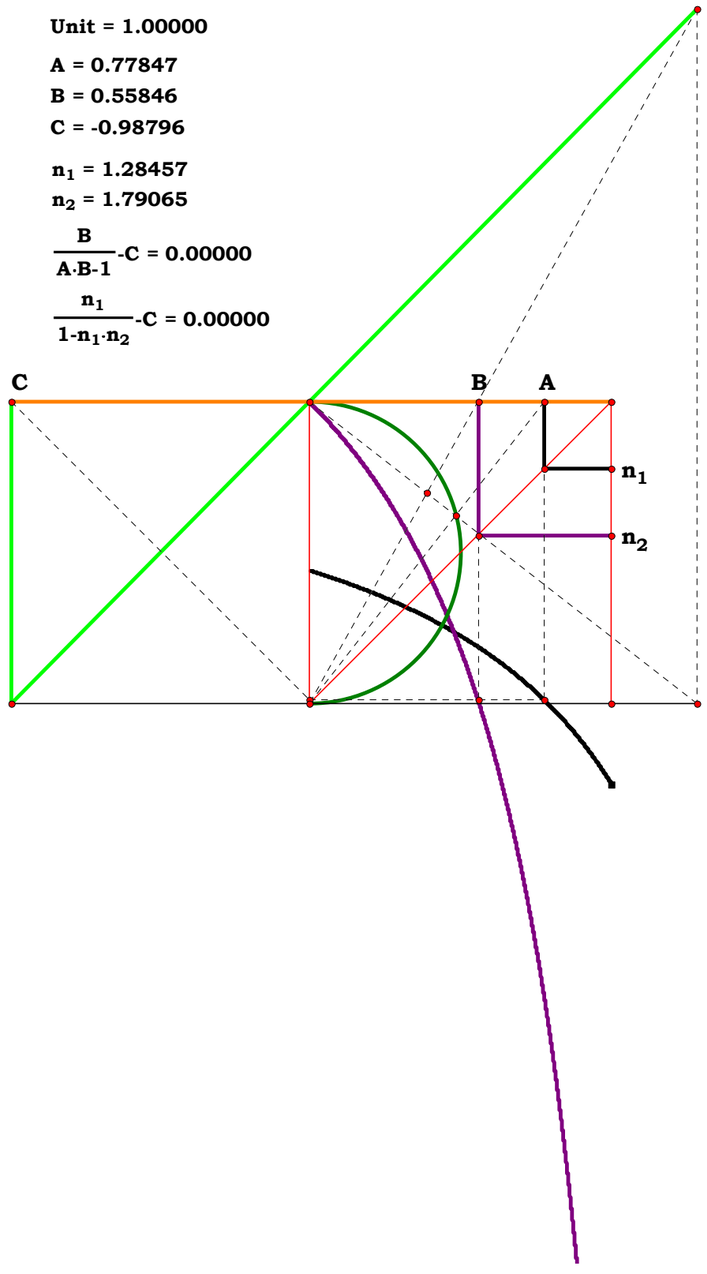
$C = -0.766367$

Definitions.

$C - \frac{B}{A \cdot B - 1} = 0$

$C - \frac{n_1}{1 - n_1 \cdot n_2} = 0$





2SMT1R5

Given. $A := .63847$ $B := .89968$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$

Descriptions.

$bA := \sqrt{A^2 + 1}$ $cA := \frac{A^2}{bA}$

$dC := \frac{cA}{bA}$ $C := B \cdot dC$

$C = 0.260541$

Definitions.

$$C - \frac{A^2 \cdot B}{A^2 + 1} = 0$$

$$C - \frac{1}{n_2 \cdot \left(n_1^2 + 1\right)} = 0$$

Unit = 1.00000

A = 0.63847

B = 0.89968

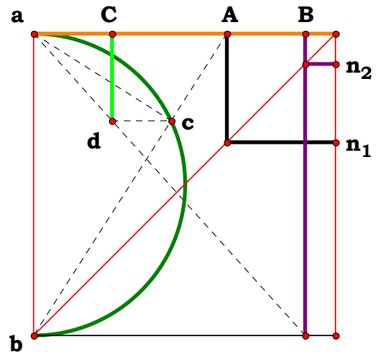
C = 0.26054

n_1 = 1.56624

n_2 = 1.11150

$\frac{A^2 \cdot B}{A^2+1}$-C = 0.00000

$\frac{1}{n_2 \cdot (n_1^2+1)}$-C = 0.00000



Unit = 1.00000

A = 0.63847

B = 0.91222

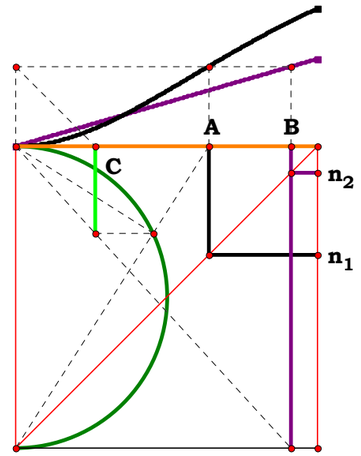
C = 0.26417

n_1 = 1.56624

n_2 = 1.09622

$\frac{A^2 \cdot B}{A^2+1}$-C = 0.00000

$\frac{1}{n_2 \cdot (n_1^2+1)}$-C = 0.00000



2SMT1R6

Unit = 1.00000

A = 0.83910

B = 2.03085

n_1 = 1.19175

$\frac{A^2+1}{A}$-B = 0.00000

$\frac{n_1{}^2+1}{n_1}$-B = 0.00000

Given. $A := .83910$

$n_1 := \frac{1}{A}$

Descriptions.

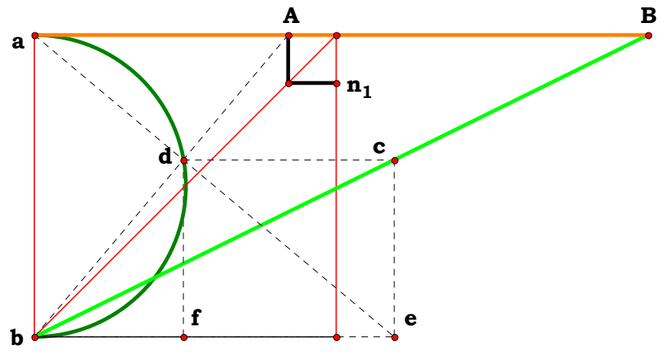
$df := \frac{1}{1+A^2}$ $ce := df$ $be := \frac{1}{A}$

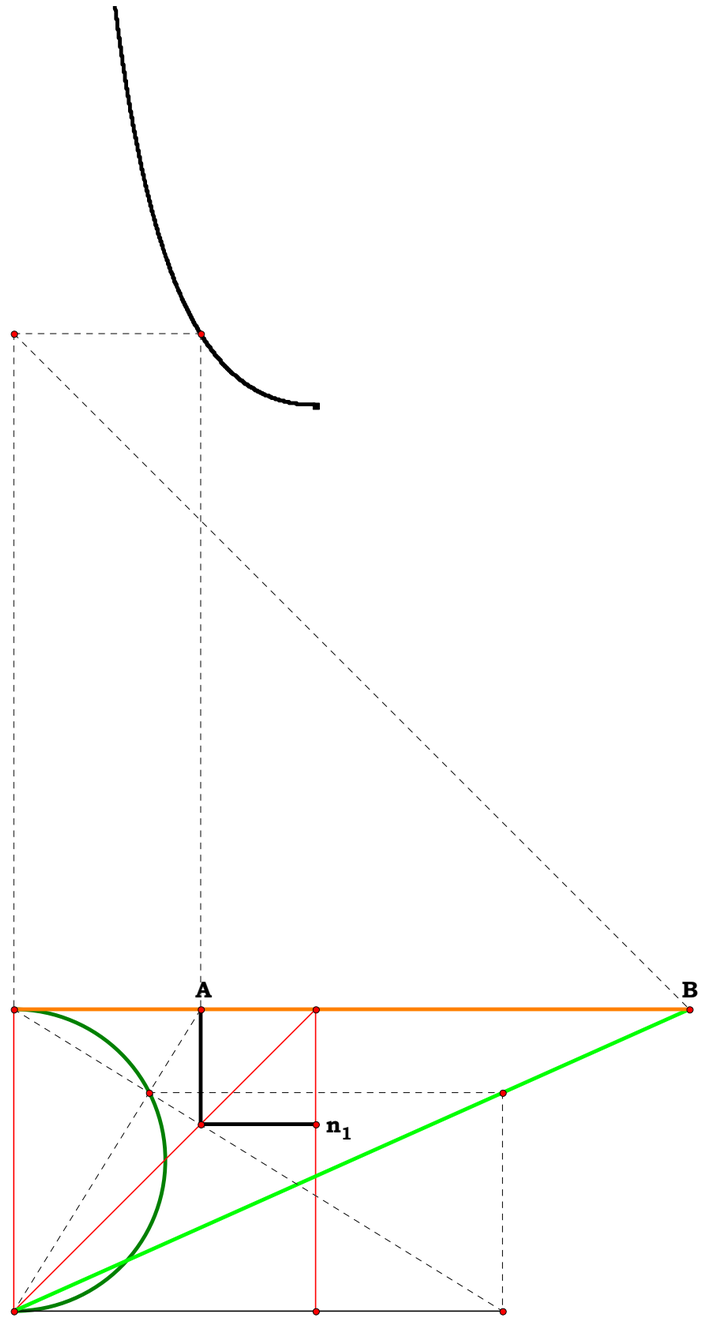
$B := \frac{be}{ce}$ $B = 2.030853$

Definitions.

$B - \frac{A^2+1}{A} = 0$

$B - \frac{n_1{}^2+1}{n_1} = 0$





Unit = 1.00000

A = 0.61757

B = 2.23682

n_1 = 1.61925

$\frac{A^2+1}{A}$-B = 0.00000

$\frac{n_1{}^2+1}{n_1}$-B = 0.00000

2SMT1R7

Given. $A := .88508$ $B := .42470$

$$n_1 := \frac{1}{A} \quad n_2 := \frac{1}{B}$$

Descriptions.

$$bd := \frac{1}{A} \qquad de := \frac{bd}{B}$$

$$bf := \frac{bd}{(1 - de)} \qquad bA := \sqrt{A^2 + 1}$$

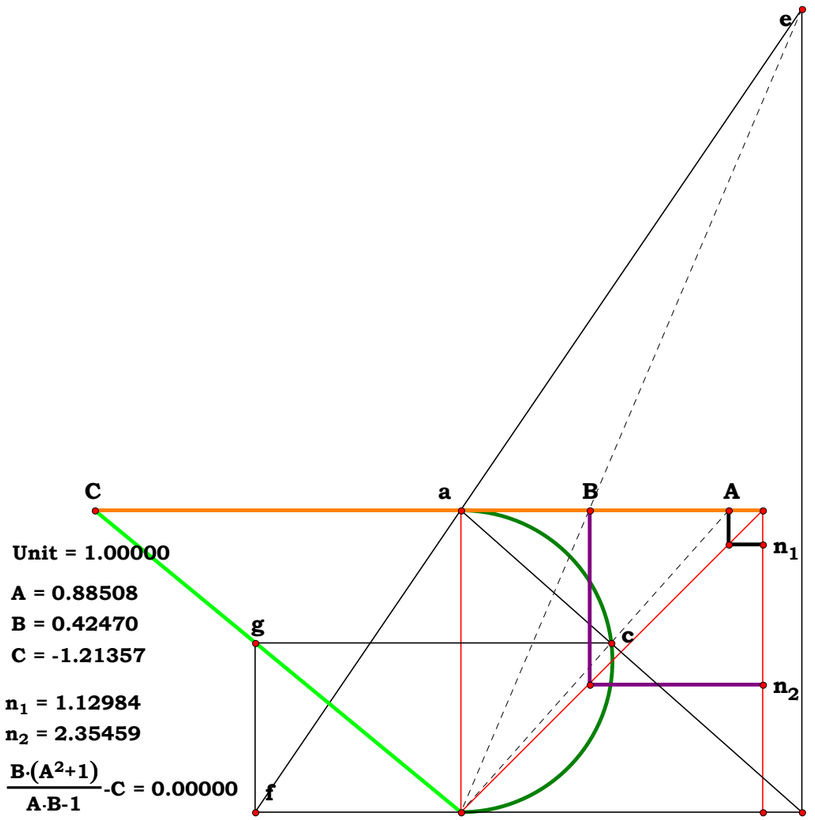
$$bc := \frac{1}{bA} \qquad fg := \frac{bc}{bA} \qquad C := \frac{bf}{fg}$$

$C = -1.213568$

Definitions.

$$C - \frac{B \cdot \left(A^2 + 1\right)}{A \cdot B - 1} = 0$$

$$C - \frac{\left(n_1{}^2 + 1\right)}{n_1 \cdot \left(1 - n_1 \cdot n_2\right)} = 0$$



Unit = 1.00000

A = 0.88508

B = 0.42470

C = -1.21357

n_1 = 1.12984

n_2 = 2.35459

$\frac{B \cdot (A^2+1)}{A \cdot B-1}$ -C = 0.00000

$\frac{n_1{}^2+1}{n_1 \cdot (1-n_1 \cdot n_2)}$ -C = 0.00000

Unit = 1.00000

A = 0.70117

B = 0.19063

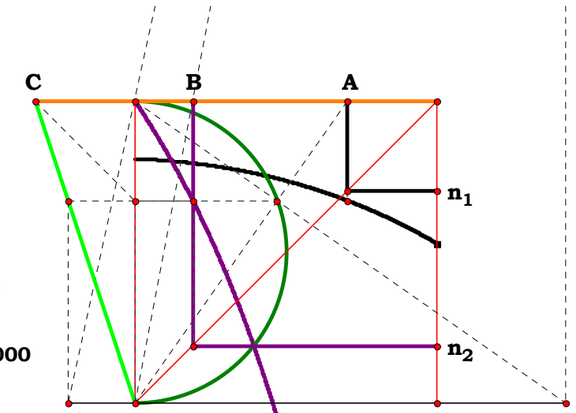
C = -0.32822

n_1 = 1.42619

n_2 = 5.24574

$\frac{B \cdot (A^2+1)}{A \cdot B-1}$ -C = 0.00000

$\frac{n_1{}^2+1}{n_1 \cdot (1-n_1 \cdot n_2)}$ -C = 0.00000



2SMT1R8

Given. $A := .86000$ $B := .64205$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$

Descriptions.

$bA := \sqrt{A^2 + 1}$ $bd := \frac{1}{bA}$

$bc := \frac{bd}{bA}$ $ac := 1 - bc$

$bf := B \cdot ac$ $C := \frac{bf}{bc}$

$C = 0.47486$

Definitions.

$C - A^2 \cdot B = 0$

$C - \frac{1}{n_1^2 \cdot n_2} = 0$

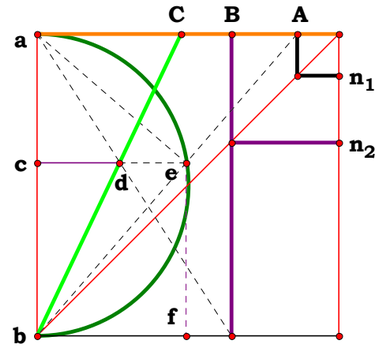
Unit = 1.00000

A = 0.86000
B = 0.64205
C = 0.47486

n_1 = 1.16279
n_2 = 1.55750

$A^2 \cdot B - C$ = 0.00000

$\frac{1}{n_1^2 \cdot n_2} - C$ = 0.00000



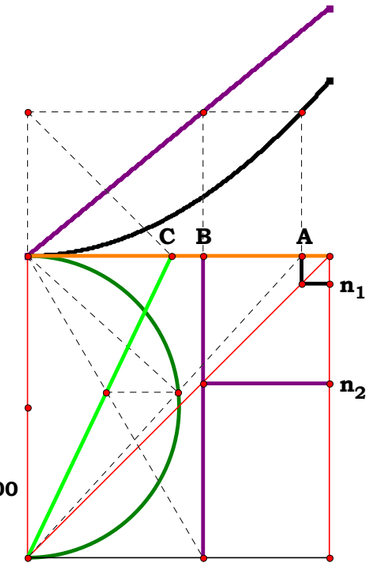
Unit = 1.00000

A = 0.90598
B = 0.57936
C = 0.47553

n_1 = 1.10378
n_2 = 1.72606

$A^2 \cdot B - C$ = 0.00000

$\frac{1}{n_1^2 \cdot n_2} - C$ = 0.00000



2SMT1R9

Given. $A := .76804$ $B := .32021$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$

Descriptions.

$bA := \sqrt{A^2 + 1}$ $bc := \frac{1}{bA}$

$de := \frac{bc}{bA}$ $C := \frac{B}{de}$

$C = 0.509097$

Definitions.

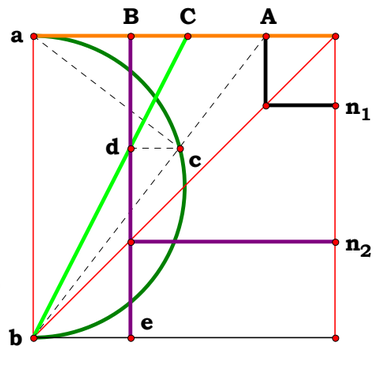
$C - B \cdot \left(A^2 + 1\right) = 0$

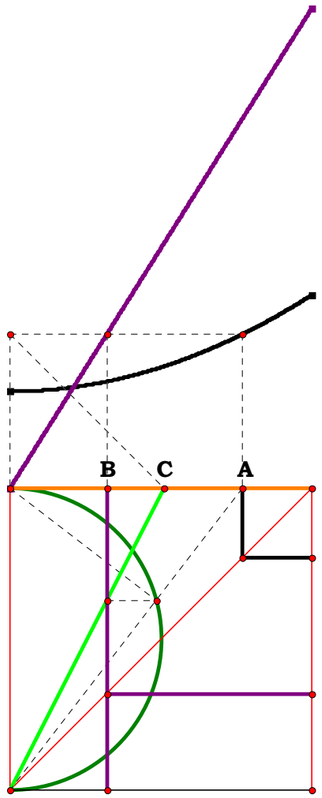
$C - \frac{\left(n_1{}^2 + 1\right)}{n_1{}^2 \cdot n_2} = 0$

Unit = 1.00000

A = 0.76804
B = 0.32021
C = 0.50909

$n_1 = 1.30201$
$n_2 = 3.12299$
$(A^2 \cdot B + B) - C = 0.00000$
$\frac{n_1{}^2+1}{n_1{}^2 \cdot n_2} - C = 0.00000$





2SMT1R10

Given. $A := .35842$

$$n_1 := \frac{1}{A}$$

Descriptions.

$$bf := \frac{1}{2} \qquad ce := A$$

$$ef := \sqrt{bf^2 - ce^2}$$

$$be := \frac{1}{2} + ef \qquad B := \frac{A}{be}$$

$B = 0.422357$

Definitions.

$$B - \frac{2 \cdot A}{\sqrt{1 - 4 \cdot A^2} + 1} = 0$$

$$B - \frac{2}{n_1 + \sqrt{(n_1 - 2) \cdot (n_1 + 2)}} = 0$$

Unit = 1.00000

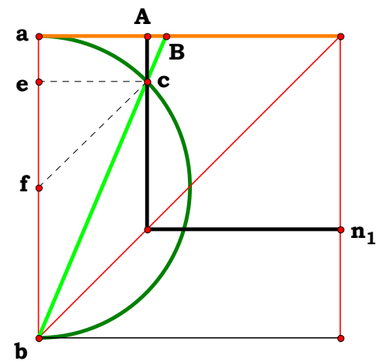
A = 0.35842

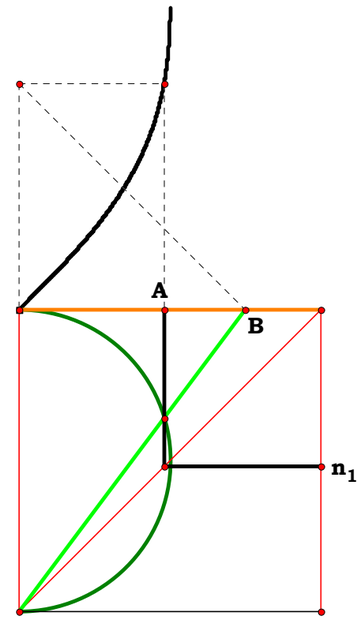
B = 0.42236

$n_1 = 2.79001$

$$\frac{2 \cdot A}{\sqrt{1-4 \cdot A^2+1}} - B = 0.00000$$

$$\frac{2}{n_1+\sqrt{(n_1-2) \cdot (n_1+2)}} - B = 0.00000$$





Unit = 1.00000

A = 0.47964

B = 0.74798

$n_1 = 2.08491$

$$\frac{2 \cdot A}{\sqrt{1-4 \cdot A^2+1}} - B = 0.00000$$

$$\frac{2}{n_1+\sqrt{(n_1-2) \cdot (n_1+2)}} - B = 0.00000$$

2SMT1R11

Unit = 1.00000

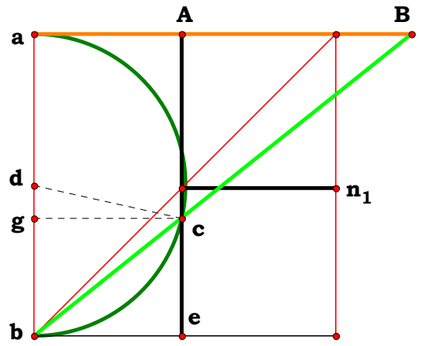
A = 0.48800

B = 1.24776

n_1 = 2.04920

$\frac{2 \cdot A}{1-\sqrt{1-4 \cdot A^2}}-B = 0.00000$

$\frac{2}{n_1-\sqrt{n_1^2-4}}-B = 0.00000$



Given. $A := .48800$

$n_1 := \frac{1}{A}$

Descriptions.

$dc := \frac{1}{2}$ $cg := A$

$dg := \sqrt{dc^2 - cg^2}$

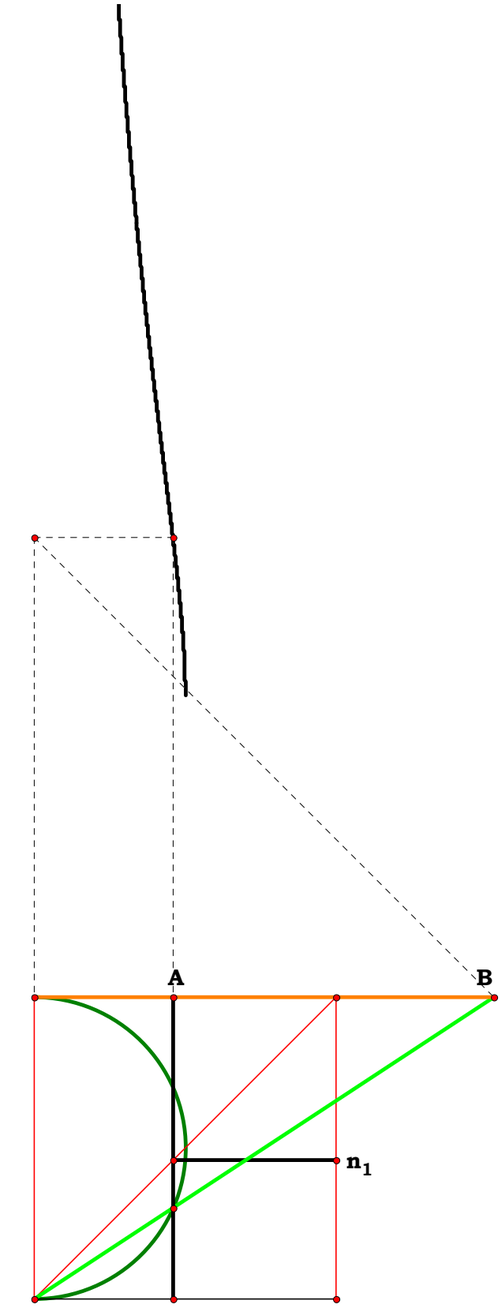
$ce := \frac{1}{2} - dg$ $B := \frac{A}{ce}$

$B = 1.247716$

Definitions.

$B - \frac{2 \cdot A}{1 - \sqrt{1 - 4 \cdot A^2}} = 0$

$B - \frac{2}{n_1 - \sqrt{(n_1 - 2) \cdot (n_1 + 2)}} = 0$



Unit = 1.00000

A = 0.45874

B = 1.52353

n_1 = 2.17990

$\frac{2 \cdot A}{1-\sqrt{1-4 \cdot A^2}}-B = 0.00000$

$\frac{2}{n_1-\sqrt{n_1^2-4}}-B = 0.00000$

2SMT2R0

Given. $A := .72625$ $B := .54592$

$$n_1 := \frac{1}{A} \quad n_2 := \frac{1}{B}$$

Descriptions.

$$dB := 1 - \frac{B}{A} \qquad ad := \sqrt{B^2 + dB^2}$$

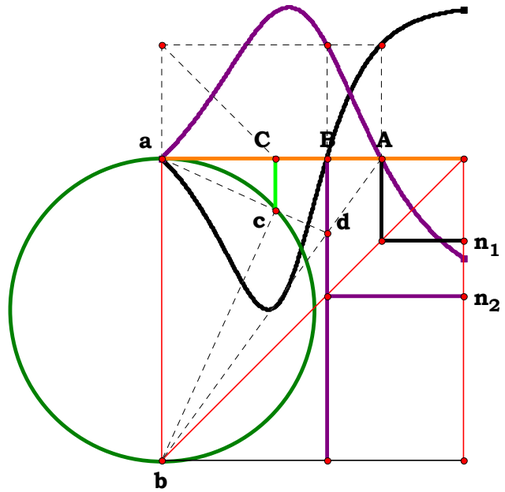
$$ac := \frac{dB}{ad} \qquad C := \frac{ac \cdot B}{ad}$$

$C = 0.376869$

Definitions.

$$C - \frac{A^2 \cdot B - A \cdot B^2}{A^2 \cdot B^2 + A^2 - 2 \cdot A \cdot B + B^2} = 0$$

$$C - \frac{n_2 - n_1}{{n_1}^2 - 2 \cdot n_1 \cdot n_2 + {n_2}^2 + 1} = 0$$

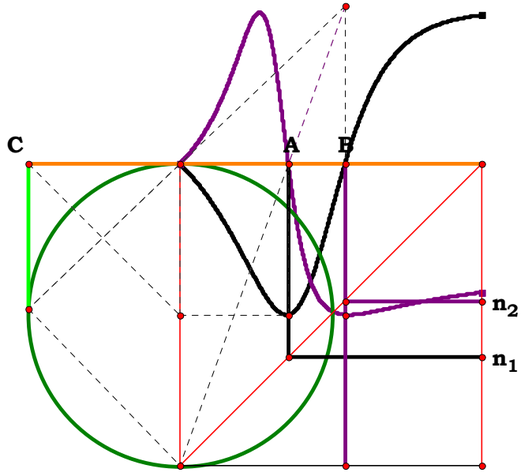


A = 0.72625
B = 0.54592
C = 0.37687
n_1 = 1.37694
n_2 = 1.83178

$\frac{A^2 \cdot B - A \cdot B^2}{((A^2 \cdot B^2 + A^2) - 2 \cdot A \cdot B) + B^2} - C = 0.00000$

Unit = 1.00000

$\frac{n_2 - n_1}{(n_1^2 - 2 \cdot n_1 \cdot n_2) + n_2^2 + 1} - C = 0.00000$



A = 0.35842
B = 0.54592
C = -0.49955
n_1 = 2.79001
n_2 = 1.83178

$\frac{A^2 \cdot B - A \cdot B^2}{((A^2 \cdot B^2 + A^2) - 2 \cdot A \cdot B) + B^2} - C = 0.00000$

Unit = 1.00000

$\frac{n_2 - n_1}{(n_1^2 - 2 \cdot n_1 \cdot n_2) + n_2^2 + 1} - C = 0.00000$

2SMT2R1

Given. $A := .73043$ $B := .57518$

$$n_1 := \frac{1}{A} \quad n_2 := \frac{1}{B}$$

Descriptions.

$$dB := 1 - \frac{B}{A} \qquad C := \frac{dB}{B}$$

$C = 0.36953$

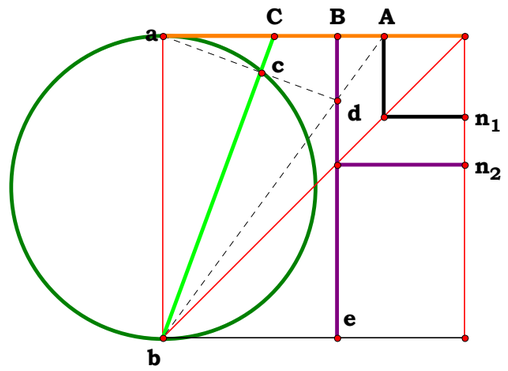
Definitions.

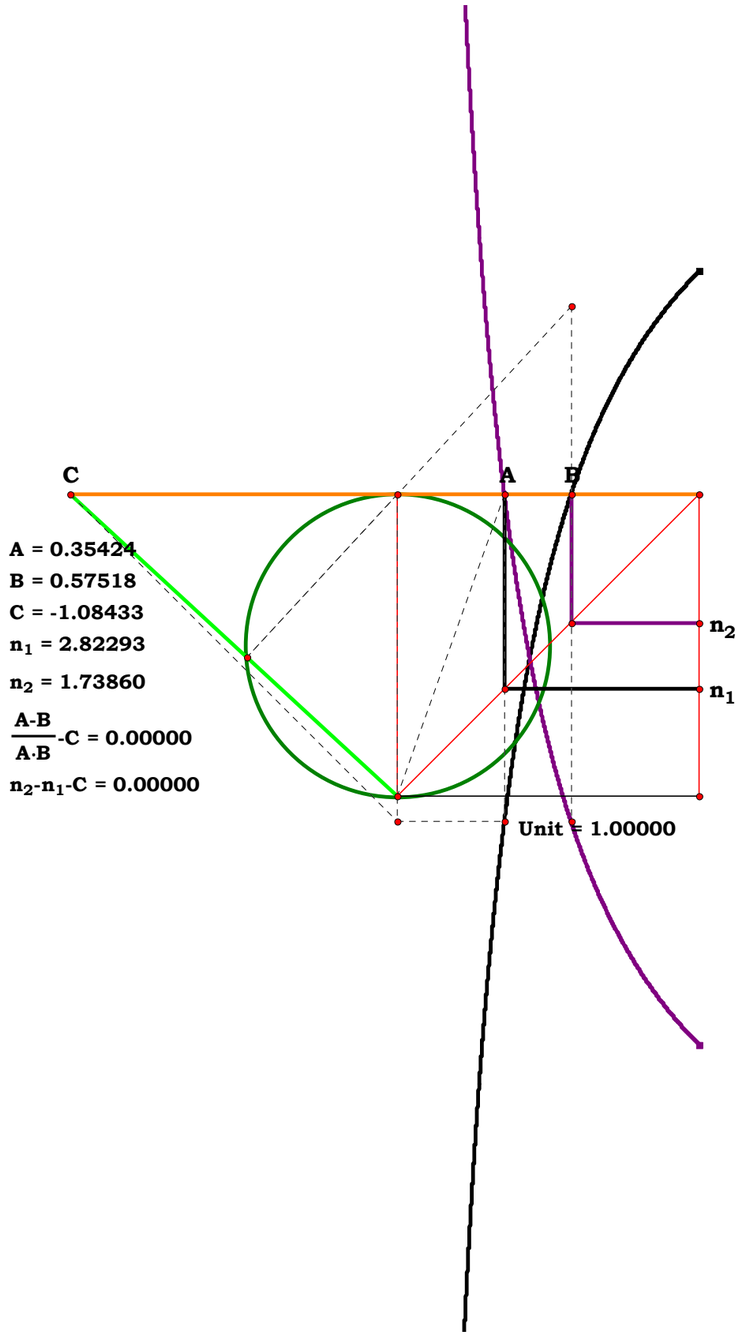
$$C - \frac{A - B}{A \cdot B} = 0$$

$$C - (n_2 - n_1) = 0$$

Unit = 1.00000

A = 0.73043
B = 0.57518
C = 0.36954
n_1 = 1.36906
n_2 = 1.73860
$\frac{A-B}{A \cdot B}$-C = 0.00000
n_2-n_1-C = 0.00000





A = 0.35424
B = 0.57518
C = -1.08433
n_1 = 2.82293
n_2 = 1.73860
$\frac{A-B}{A \cdot B}$-C = 0.00000
n_2-n_1-C = 0.00000

2SMT2R2

Given. $A := .59667$ $B := .27841$

$$n_1 := \frac{1}{A} \quad n_2 := \frac{1}{B}$$

Descriptions.

$$de := \frac{B}{A} \quad dB := 1 - de$$

$$C := \sqrt{de \cdot dB} \qquad C = 0.498884$$

Definitions.

$$C - \frac{\sqrt{A \cdot B - B^2}}{A} = 0$$

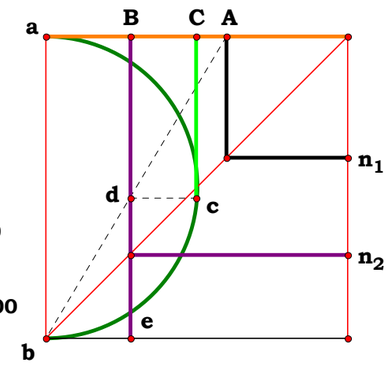
$$C - \frac{n_1 \cdot \sqrt{(n_2 - n_1)}}{n_2 \cdot \sqrt{n_1}} = 0$$

Unit = 1.00000

A = 0.59667
B = 0.27841
C = 0.49888
n_1 = 1.67596
n_2 = 3.59186

$\frac{\sqrt{A \cdot B - B^2}}{A} - C = 0.00000$

$\frac{n_1 \cdot \sqrt{n_2 - n_1}}{n_2 \cdot \sqrt{n_1}} - C = 0.00000$

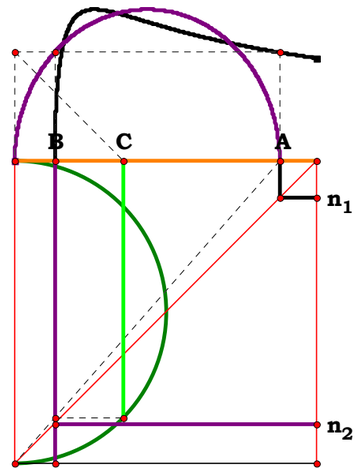


Unit = 1.00000

A = 0.87672
B = 0.13211
C = 0.35775
n_1 = 1.14061
n_2 = 7.56926

$\frac{\sqrt{A \cdot B - B^2}}{A} - C = 0.00000$

$\frac{n_1 \cdot \sqrt{n_2 - n_1}}{n_2 \cdot \sqrt{n_1}} - C = 0.00000$



2SMT2R3

Given. $A := .53815$ $B := .24915$

$C := .70969$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$ $n_3 := \frac{1}{C}$

Descriptions.

$bc := \frac{B}{A}$ $ac := 1 - bc$

$cd := \sqrt{bc \cdot ac}$ $bg := \frac{cd}{ac}$

$D := \frac{C \cdot bg}{C + bg}$ $D = 0.402241$

Definitions.

$$D - \frac{A \cdot C \cdot \sqrt{B \cdot (A - B)}}{A \cdot \sqrt{B \cdot (A - B)} + A \cdot C \cdot (A - B)} = 0$$

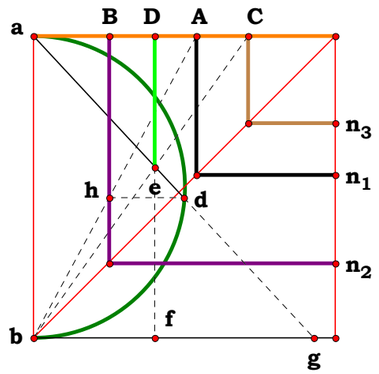
$$D - \frac{\sqrt{n_1 \cdot (n_2 - n_1)}}{n_3 \cdot \sqrt{n_1 \cdot (n_2 - n_1)} + (n_2 - n_1)} = 0$$

Unit = 1.00000

A = 0.53815
B = 0.24915
C = 0.70969
D = 0.40224
n_1 = 1.85820
n_2 = 4.01367
n_3 = 1.40907

$\frac{A \cdot C \cdot \sqrt{B \cdot (A-B)}}{A \cdot \sqrt{B \cdot (A-B)} + A \cdot C \cdot (A-B)}$ -D = 0.00000

$\frac{\sqrt{n_1 \cdot (n_2 - n_1)}}{(n_3 \cdot \sqrt{n_1 \cdot (n_2 - n_1)} + n_2) - n_1}$ -D = 0.00000

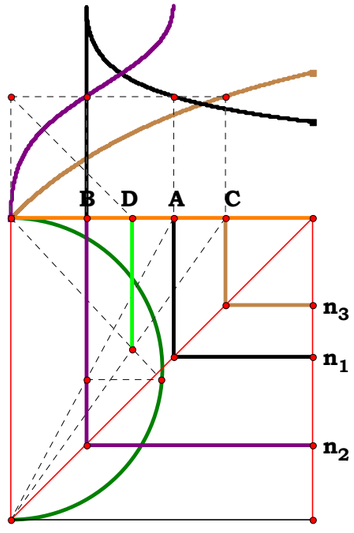


Unit = 1.00000

A = 0.53815
B = 0.24915
C = 0.70969
D = 0.40224
n_1 = 1.85820
n_2 = 4.01367
n_3 = 1.40907

$\frac{A \cdot C \cdot \sqrt{B \cdot (A-B)}}{A \cdot \sqrt{B \cdot (A-B)} + A \cdot C \cdot (A-B)}$ -D = 0.00000

$\frac{\sqrt{n_1 \cdot (n_2 - n_1)}}{(n_3 \cdot \sqrt{n_1 \cdot (n_2 - n_1)} + n_2) - n_1}$ -D = 0.00000



2SMT2R4

Given. $A := .86000$ $B := .55428$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$

Descriptions.

$ef := \frac{B}{A}$ $eB := 1 - ef$

$cd := \sqrt{ef \cdot eB}$ $C := \frac{cd}{ef}$

$C = 0.742672$

Definitions.

$$C - \frac{A \cdot \sqrt{B \cdot (A - B)}}{A \cdot B} = 0$$

$$C - \frac{n_2 \cdot \sqrt{n_2 - n_1}}{\sqrt{n_1 \cdot n_2^2}} = 0$$

Unit = 1.00000

A = 0.86000

B = 0.55428

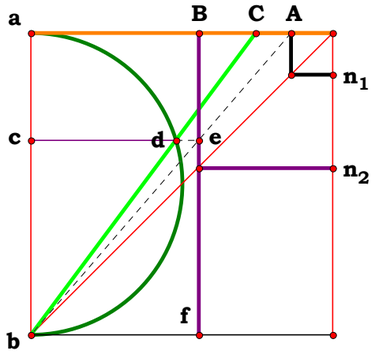
C = 0.74268

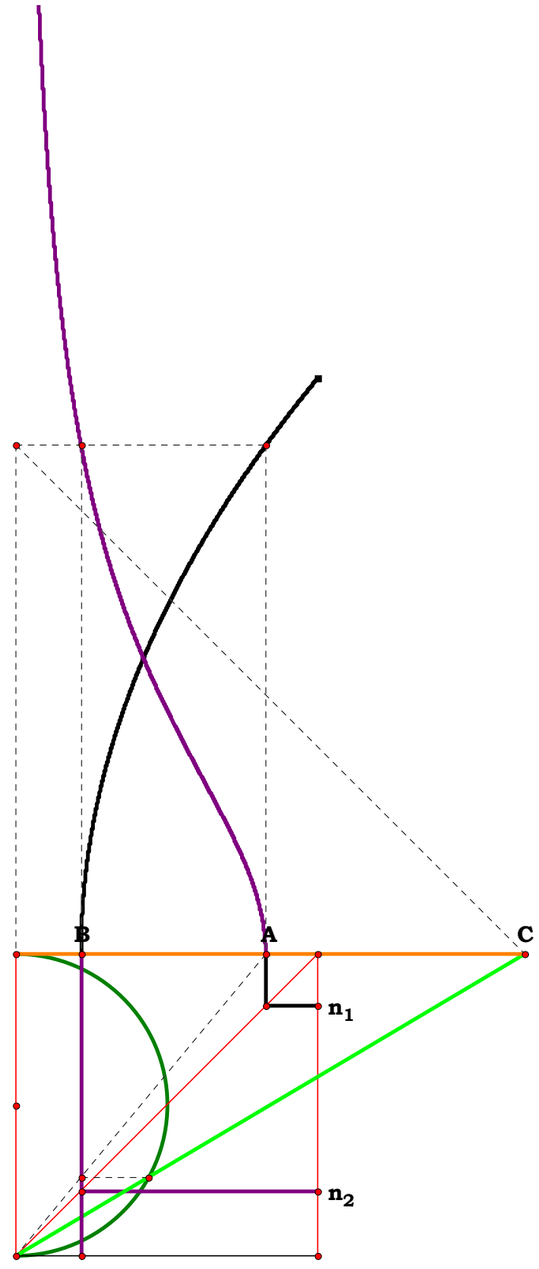
n_1 = 1.16279

n_2 = 1.80415

$\frac{A \cdot \sqrt{B \cdot (A-B)}}{A \cdot B}$ -C = 0.00000

$\frac{n_2 \cdot \sqrt{n_2 - n_1}}{\sqrt{n_1 \cdot n_2^2}}$ -C = 0.00000





Unit = 1.00000

A = 0.82656

B = 0.21571

C = 1.68280

n_1 = 1.20983

n_2 = 4.63586

$\frac{A \cdot \sqrt{B \cdot (A-B)}}{A \cdot B}$ -C = 0.00000

$\frac{n_2 \cdot \sqrt{n_2 - n_1}}{\sqrt{n_1 \cdot n_2^2}}$ -C = 0.00000

2SMT2R5

Given. $A := .87254$ $B := .29095$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$

Descriptions.

$ef := \frac{B}{A}$ $eB := 1 - ef$

$cd := \sqrt{eB \cdot ef}$ $C := \frac{cd}{eB}$

$C = 0.707295$

Definitions.

$$C - \frac{\sqrt{B}}{\sqrt{A - B}} = 0$$

$$C - \frac{\sqrt{n_1 \cdot n_2}}{\sqrt{n_2} \cdot \sqrt{n_2 - n_1}} = 0$$

Unit = 1.00000

A = 0.87254

B = 0.29095

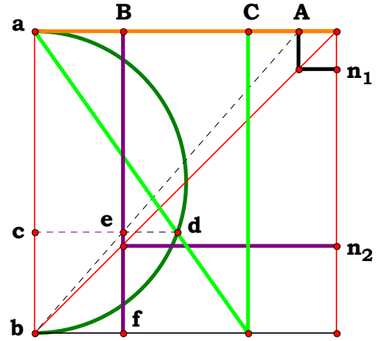
C = 0.70729

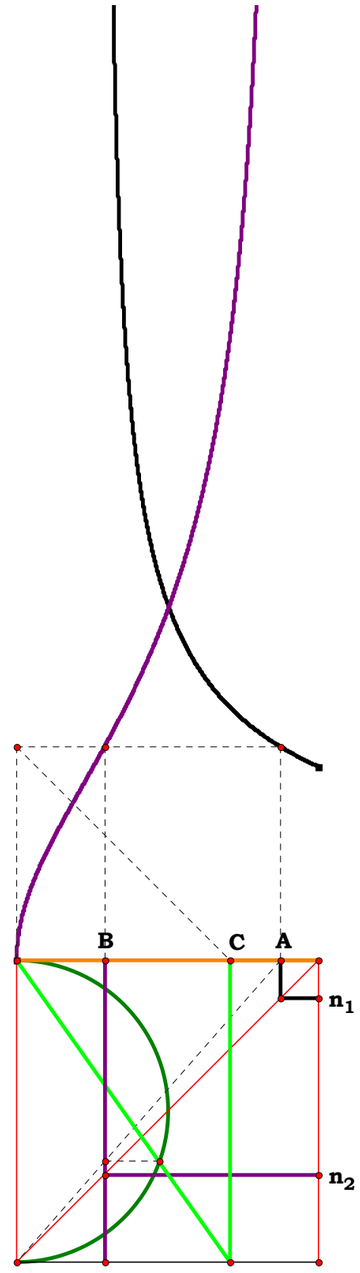
n_1 = 1.14608

n_2 = 3.43705

$\frac{\sqrt{B}}{\sqrt{A\text{-}B}}$-C = 0.00000

$\frac{\sqrt{n_1 \cdot n_2}}{\sqrt{n_2 \cdot (n_2 - n_1)}}$-C = 0.00000





Unit = 1.00000

A = 0.87254

B = 0.29095

C = 0.70729

n_1 = 1.14608

n_2 = 3.43705

$\frac{\sqrt{B}}{\sqrt{A\text{-}B}}$-C = 0.00000

$\frac{\sqrt{n_1 \cdot n_2}}{\sqrt{n_2 \cdot (n_2 - n_1)}}$-C = 0.00000

2SMT2R6

Given. $A := .86418$ $B := .53756$

$C := .68043$ $D := .31890$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$ $n_3 := \frac{1}{C}$ $n_4 := \frac{1}{D}$

Descriptions.

$bA := \sqrt{1 + A^2}$ $bc := \frac{1}{bA}$

$de := \frac{bc}{bA}$ $fg := \frac{B}{C}$ $E := \frac{D}{de} \cdot fg$

$E = 0.440091$

Definitions.

$$E - \frac{B \cdot D \cdot \left(A^2 + 1\right)}{C} = 0$$

$$E - \frac{n_3 \cdot \left(n_1{}^2 + 1\right)}{n_1{}^2 \cdot n_2 \cdot n_4} = 0$$

Unit = 1.00000

A = 0.86418

B = 0.53756

C = 0.68043

D = 0.31890

E = 0.44009

$n_1 = 1.15717$

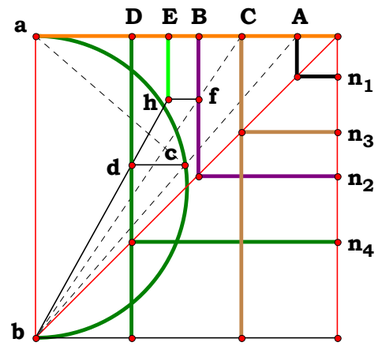
$n_2 = 1.86027$

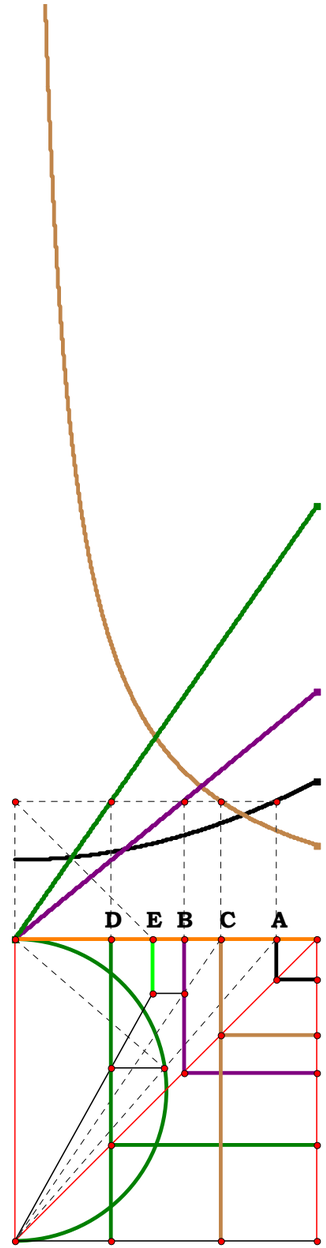
$n_3 = 1.46966$

$n_4 = 3.13581$

$\frac{B \cdot D \cdot (A^2+1)}{C}$-E = 0.00000

$\frac{n_3 \cdot (n_1{}^2+1)}{n_1{}^2 \cdot n_2 \cdot n_4}$-E = 0.00000





Unit = 1.00000

A = 0.86418

B = 0.55846

C = 0.68043

D = 0.31890

E = 0.45720

$n_1 = 1.15717$

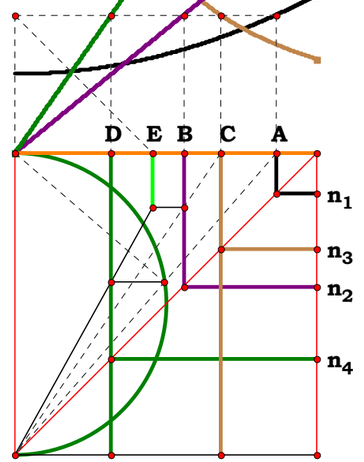
$n_2 = 1.79065$

$n_3 = 1.46966$

$n_4 = 3.13581$

$\frac{B \cdot D \cdot (A^2+1)}{C}$-E = 0.00000

$\frac{n_3 \cdot (n_1{}^2+1)}{n_1{}^2 \cdot n_2 \cdot n_4}$-E = 0.00000



2SMT2R7

Given. $A := .86000$ $B := .30349$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$

Descriptions.

$bA := \sqrt{1 + A^2}$ $bd := \frac{1}{bA}$ $ef := \frac{bd}{bA}$

$C := \frac{B}{1 - ef}$ $C = 0.713833$

Definitions.

$$C - \frac{A^2 \cdot B + B}{A^2} = 0$$

$$C - \frac{n_1^{\,2} + 1}{n_2} = 0$$

Unit = 1.00000

A = 0.86000

B = 0.30349

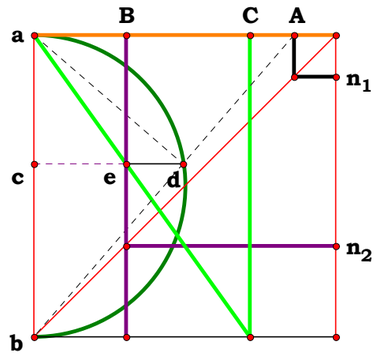
C = 0.71382

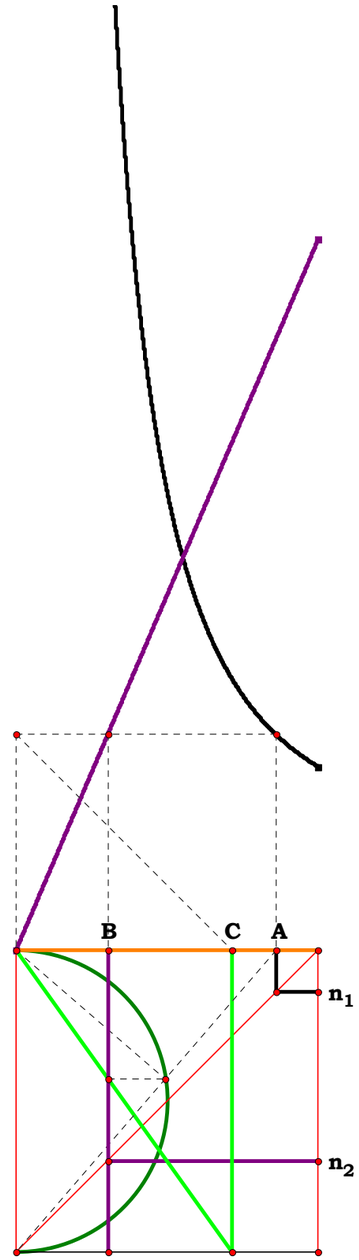
n_1 = 1.16279

n_2 = 3.29504

$\frac{A^2 \cdot B+B}{A^2}$-C = 0.00000

$\frac{n_1^{\,2}+1}{n_2}$-C = 0.00000





Unit = 1.00000

A = 0.86000

B = 0.30349

C = 0.71382

n_1 = 1.16279

n_2 = 3.29504

$\frac{A^2 \cdot B+B}{A^2}$-C = 0.00000

$\frac{n_1^{\,2}+1}{n_2}$-C = 0.00000

2SMT2R8

Given. $A := .79312$ $B := .33693$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$

Descriptions.

$bA := \sqrt{1 + A^2}$ $bc := \frac{1}{bA}$

$de := \frac{bc}{bA}$ $C := \frac{B}{de}$

$C = 0.548872$

Definitions.

$C - \left(A^2 \cdot B + B\right) = 0$

$C - \frac{\left(n_1{}^2 + 1\right)}{n_1{}^2 \cdot n_2} = 0$

Unit = 1.00000

A = 0.79312

B = 0.33693

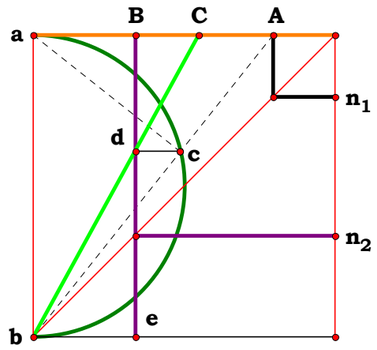
C = 0.54887

n_1 = 1.26084

n_2 = 2.96802

$(A^2 \cdot B+B)-C = 0.00000$

$\frac{n_1{}^2+1}{n_1{}^2 \cdot n_2}-C = 0.00000$



Unit = 1.00000

A = 0.77222

B = 0.27005

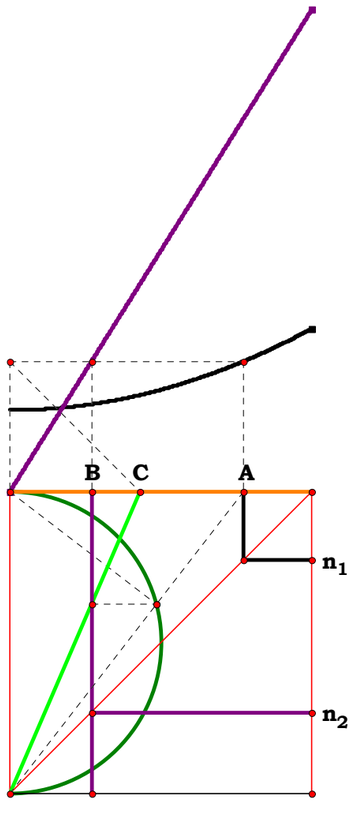
C = 0.43109

n_1 = 1.29496

n_2 = 3.70305

$(A^2 \cdot B+B)-C = 0.00000$

$\frac{n_1{}^2+1}{n_1{}^2 \cdot n_2}-C = 0.00000$



2SMT2R9

Given. $A := .77011$ $B := .28259$

$C := .67625$ $D := .43593$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$ $n_3 := \frac{1}{C}$ $n_4 := \frac{1}{D}$

Descriptions.

$ac := 1 - \frac{B}{A}$ $cd := \sqrt{ac \cdot (1 - ac)}$

$bf := \frac{cd}{ac}$ $gh := \frac{bf}{bf + C}$ $E := \frac{D}{gh}$

$E = 0.823136$

Definitions.

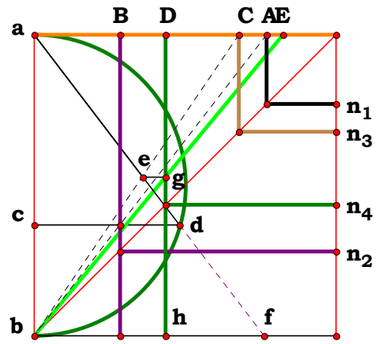
$$E - \frac{D \cdot \left[A \cdot \sqrt{B \cdot (A - B)} + A \cdot C \cdot (A - B)\right]}{A \cdot \sqrt{B \cdot (A - B)}} = 0$$

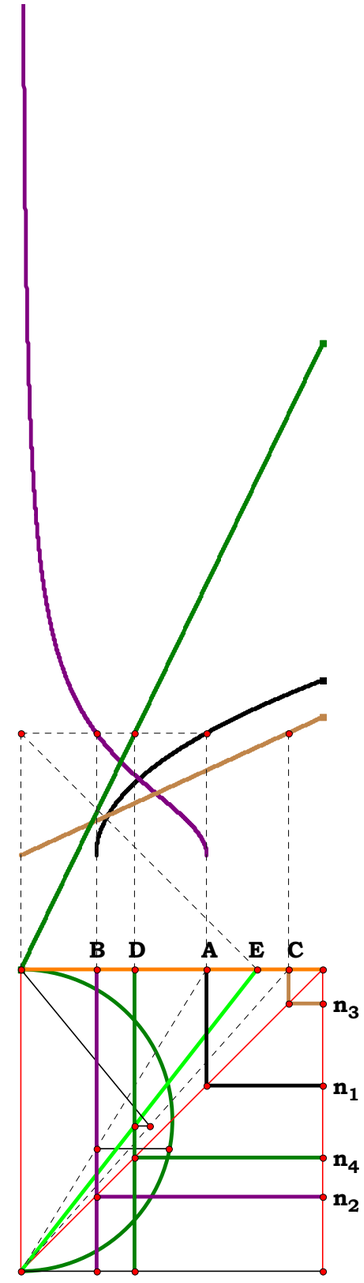
$$E - \frac{\left(n_2 - n_1\right) + n_3 \cdot \sqrt{n_1 \cdot \left(n_2 - n_1\right)}}{n_3 \cdot n_4 \cdot \sqrt{n_1 \cdot \left(n_2 - n_1\right)}} = 0$$

Unit = 1.00000
A = 0.77011
B = 0.28259
C = 0.67625
D = 0.43593
E = 0.82314
n_1 = 1.29852
n_2 = 3.53873
n_3 = 1.47874
n_4 = 2.29393

$$\frac{D \cdot \left(A \cdot \sqrt{B \cdot (A-B)} + A \cdot C \cdot (A-B)\right)}{A \cdot \sqrt{B \cdot (A-B)}} - E = 0.00000$$

$$\frac{(n_2-n_1) + n_3 \cdot \sqrt{n_1 \cdot (n_2-n_1)}}{n_3 \cdot n_4 \cdot \sqrt{n_1 \cdot (n_2-n_1)}} - E = 0.00000$$





Unit = 1.00000
A = 0.61546
B = 0.24915
C = 0.88524
D = 0.37741
E = 0.78253
n_1 = 1.62481
n_2 = 4.01367
n_3 = 1.12964
n_4 = 2.64961

$$\frac{D \cdot \left(A \cdot \sqrt{B \cdot (A-B)} + A \cdot C \cdot (A-B)\right)}{A \cdot \sqrt{B \cdot (A-B)}} - E = 0.00000$$

$$\frac{(n_2-n_1) + n_3 \cdot \sqrt{n_1 \cdot (n_2-n_1)}}{n_3 \cdot n_4 \cdot \sqrt{n_1 \cdot (n_2-n_1)}} - E = 0.00000$$

2SMT3R1

Given. $A := .89344$ $B := .40798$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$

Descriptions.

$fg := \frac{B}{A+B}$ $cd := \sqrt{fg \cdot (1 - fg)}$ $C := \frac{cd}{1 - fg}$

$C = 0.675751$

Definitions.

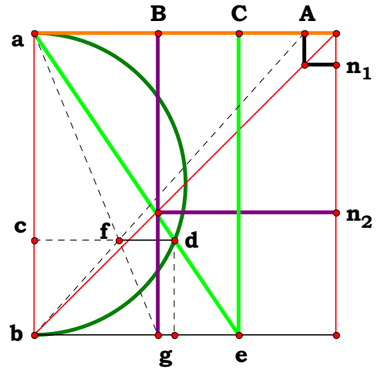
$C - \frac{\sqrt{A \cdot B}}{A} = 0$

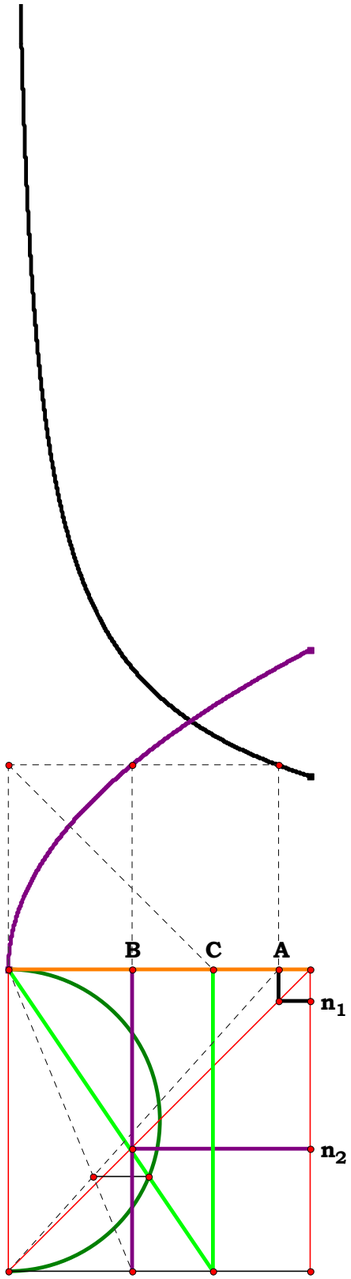
$C - \frac{n_1}{\sqrt{n_1 \cdot n_2}} = 0$

Unit = 1.00000
A = 0.89344
B = 0.40798
C = 0.67575
n_1 = 1.11927
n_2 = 2.45109

$\frac{\sqrt{A \cdot B}}{A}$-C = 0.00000

$\frac{n_1}{\sqrt{n_1 \cdot n_2}}$-C = 0.00000

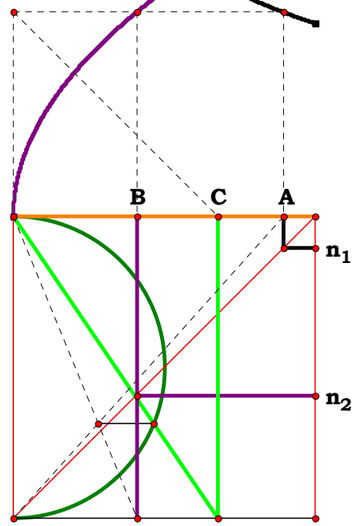




Unit = 1.00000
A = 0.89344
B = 0.40798
C = 0.67575
n_1 = 1.11927
n_2 = 2.45109

$\frac{\sqrt{A \cdot B}}{A}$-C = 0.00000

$\frac{n_1}{\sqrt{n_1 \cdot n_2}}$-C = 0.00000



2SMT3R2

Given. $A := .35006$ $B := .87612$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$

Descriptions.

$bA := \sqrt{1 + A^2}$ $be := \frac{1}{bA}$

$bf := \frac{A \cdot be}{bA}$ $fh := B - bf$

$fg := \frac{fh}{B}$ $ac := 1 - fg$

$cg := \sqrt{ac \cdot fg}$ $C := \frac{cg}{fg}$

$C = 0.743404$

Definitions.

$$C - \frac{\sqrt{A}}{\sqrt{A^2 \cdot B - A + B}} = 0$$

$$C - \frac{\sqrt{n_1 \cdot n_2}}{\sqrt{\left(n_1^2 - n_1 \cdot n_2 + 1\right)}} = 0$$

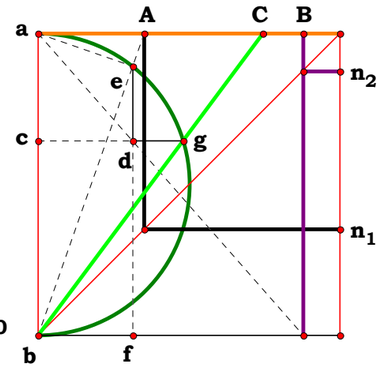
Unit = 1.00000

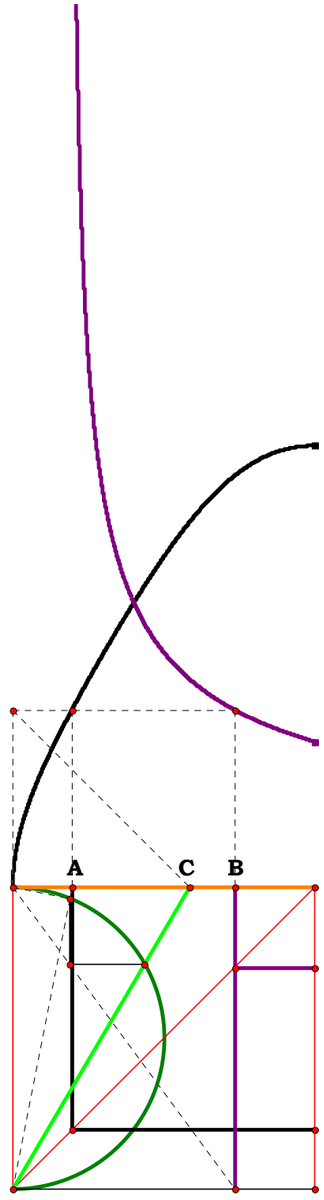
A = 0.35006
B = 0.87612
C = 0.74340

n_1 = 2.85664
n_2 = 1.14139

$\frac{\sqrt{A}}{\sqrt{(A^2 \cdot B - A) + B}}$ -C = 0.00000

$\frac{\sqrt{n_1 \cdot n_2}}{\sqrt{(n_1^2 - n_1 \cdot n_2) + 1}}$ -C = 0.00000





Unit = 1.00000

A = 0.19541
B = 0.73401
C = 0.58725

n_1 = 5.11751
n_2 = 1.36238

$\frac{\sqrt{A}}{\sqrt{(A^2 \cdot B - A) + B}}$ -C = 0.00000

$\frac{\sqrt{n_1 \cdot n_2}}{\sqrt{(n_1^2 - n_1 \cdot n_2) + 1}}$ -C = 0.00000

2SMT3R3

Given. $A := .37096$ $B := .76745$

$C := .51742$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$ $n_3 := \frac{1}{C}$

Descriptions.

$bd := \frac{B}{A+B}$ $ad := \frac{A}{A+B}$

$df := \sqrt{bd \cdot ad}$ $aj := \frac{df}{bd}$ $ac := \frac{aj}{aj+C}$

$ce := \sqrt{ac \cdot (1-ac)}$ $D := \frac{ce}{ac}$

$D = 0.862685$

Definitions.

$$D - \frac{B \cdot (A \cdot C)^{\frac{1}{2}} \cdot (A \cdot B)^{\frac{1}{4}}}{A \cdot B} = 0$$

$$D - \frac{n_1 \cdot n_2}{n_2 \cdot (n_1 \cdot n_3)^{\frac{1}{2}} \cdot (n_1 \cdot n_2)^{\frac{1}{4}}} = 0$$

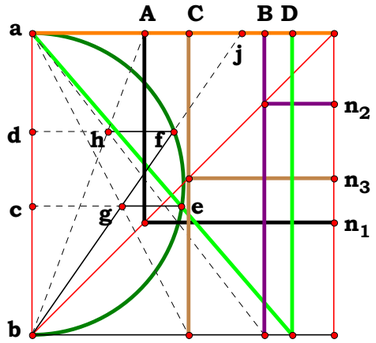
Unit = 1.00000

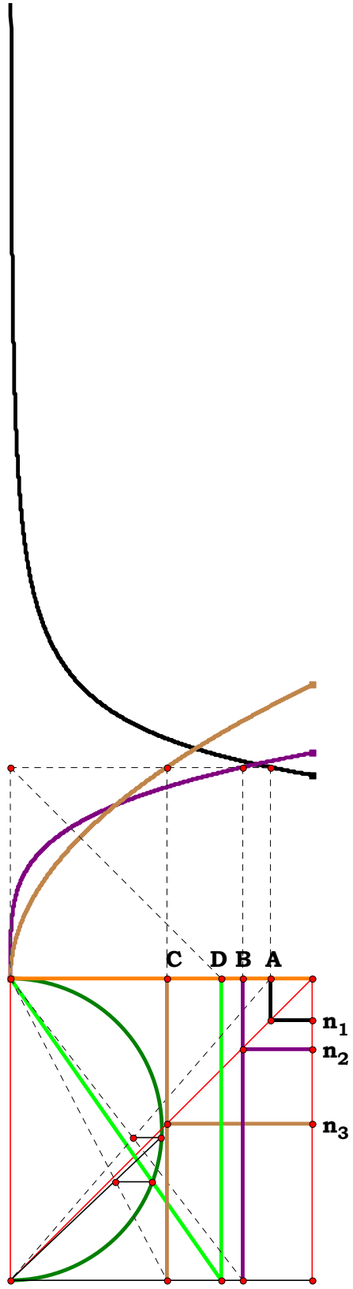
A = 0.37096
B = 0.76745
C = 0.51742
D = 0.86268

$n_1 = 2.69570$
$n_2 = 1.30302$
$n_3 = 1.93268$

$$\frac{B \cdot (A \cdot C)^{\frac{1}{2}} \cdot (A \cdot B)^{\frac{1}{4}}}{A \cdot B} - D = 0.00000$$

$$\frac{n_1 \cdot n_2}{n_2 \cdot (n_1 \cdot n_3)^{\frac{1}{2}} \cdot (n_1 \cdot n_2)^{\frac{1}{4}}} - D = 0.00000$$





Unit = 1.00000

A = 0.86000
B = 0.76745
C = 0.51742
D = 0.69913

$n_1 = 1.16279$
$n_2 = 1.30302$
$n_3 = 1.93268$

$$\frac{B \cdot (A \cdot C)^{\frac{1}{2}} \cdot (A \cdot B)^{\frac{1}{4}}}{A \cdot B} - D = 0.00000$$

$$\frac{n_1 \cdot n_2}{n_2 \cdot (n_1 \cdot n_3)^{\frac{1}{2}} \cdot (n_1 \cdot n_2)^{\frac{1}{4}}} - D = 0.00000$$

2SMT3R4

Given. $A := .86000$ $B := .73401$

$C := .57593$ $D := .52371$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$ $n_3 := \frac{1}{C}$ $n_4 := \frac{1}{D}$

Descriptions.

$be := \frac{B}{B + A}$ $eh := \sqrt{be \cdot (1 - be)}$ $ak := \frac{eh}{be}$

$bd := \frac{C}{ak + C}$ $dg := \sqrt{bd \cdot (1 - bd)}$ $aj := \frac{dg}{bd}$

$bc := \frac{D}{aj + D}$ $cf := \sqrt{bc \cdot (1 - bc)}$ $E := \frac{cf}{1 - bc}$

$E = 0.618071$

Definitions.

$$E - \frac{\sqrt{B \cdot C \cdot D}}{(B \cdot C \cdot \sqrt{A \cdot B})^{\frac{1}{4}}} = 0$$

$$E - \frac{(n_1 \cdot n_2)^{\frac{1}{8}} \cdot (n_2 \cdot n_3)^{\frac{1}{4}}}{\sqrt{n_2 \cdot n_3 \cdot n_4}} = 0$$

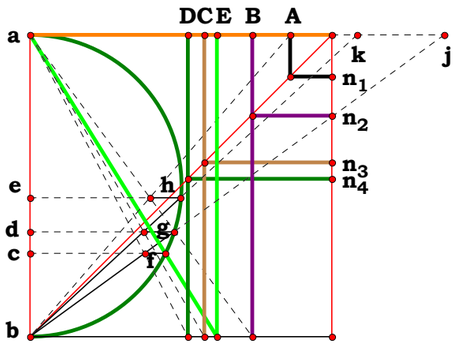
Unit = 1.00000

A = 0.86000
B = 0.73401
C = 0.57593
D = 0.52371
E = 0.61807

$n_1 = 1.16279$
$n_2 = 1.36238$
$n_3 = 1.73631$
$n_4 = 1.90946$

$\frac{\sqrt{B \cdot C \cdot D}}{(B \cdot C \cdot \sqrt{A \cdot B})^{\frac{1}{4}}} - E = 0.00000$

$\frac{(n_1 \cdot n_2)^{\frac{1}{8}} \cdot (n_2 \cdot n_3)^{\frac{1}{4}}}{\sqrt{n_2 \cdot n_3 \cdot n_4}} - E = 0.00000$



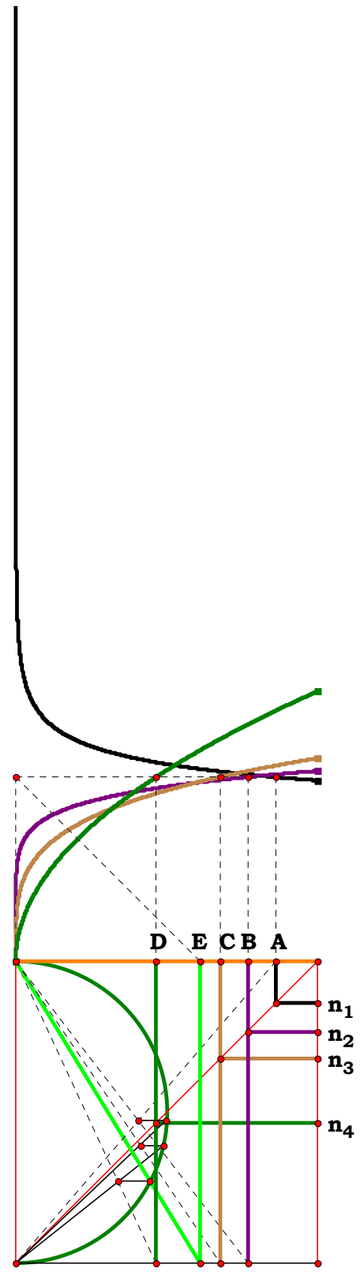
Unit = 1.00000

A = 0.86000
B = 0.76745
C = 0.67625
D = 0.46519
E = 0.60976

$n_1 = 1.16279$
$n_2 = 1.30302$
$n_3 = 1.47874$
$n_4 = 2.14965$

$\frac{\sqrt{B \cdot C \cdot D}}{(B \cdot C \cdot \sqrt{A \cdot B})^{\frac{1}{4}}} - E = 0.00000$

$\frac{(n_1 \cdot n_2)^{\frac{1}{8}} \cdot (n_2 \cdot n_3)^{\frac{1}{4}}}{\sqrt{n_2 \cdot n_3 \cdot n_4}} - E = 0.00000$



2SMT3R5

Given. $A := 2.74360$ $B := 1.99835$

$C := 1.37955$ $D := 2.34347$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$ $n_3 := \frac{1}{C}$ $n_4 := \frac{1}{D}$

Descriptions.

$be := \frac{B}{A+B}$ $eh := \sqrt{be \cdot (1-be)}$ $ak := \frac{eh}{be}$

$bd := \frac{C}{ak+C}$ $dg := \sqrt{bd \cdot (1-bd)}$ $aj := \frac{dg}{bd}$

$bc := \frac{D}{aj+D}$ $cf := \sqrt{bc \cdot (1-bc)}$ $E := \frac{cf}{bc}$

$E = 0.627108$

Definitions.

$$E - \frac{(A \cdot B)^{\frac{1}{8}}}{(B \cdot C \cdot D^2)^{\frac{1}{4}}} = 0$$

$$E - \frac{(n_2 \cdot n_3 \cdot n_4^2)^{\frac{1}{4}}}{(n_1 \cdot n_2)^{\frac{1}{8}}} = 0$$

Unit = 1.00000

A = 0.16197

B = 0.70057

C = 0.83508

D = 0.94169

E = 0.89766

n_1 = 6.17402

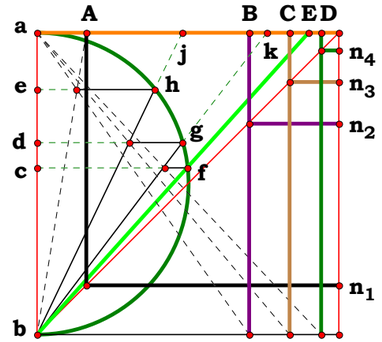
n_2 = 1.42741

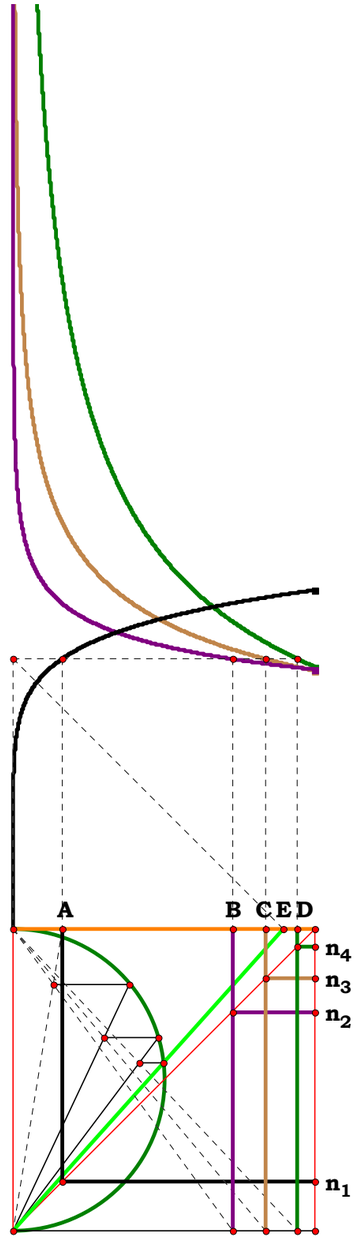
n_3 = 1.19749

n_4 = 1.06192

$\frac{(A \cdot B)^{\frac{1}{8}}}{(B \cdot C \cdot D^2)^{\frac{1}{4}}}$ -E = 0.00000

$\frac{(n_2 \cdot n_3 \cdot n_4^2)^{\frac{1}{4}}}{(n_1 \cdot n_2)^{\frac{1}{8}}}$ -E = 0.00000





Unit = 1.00000

A = 0.16197

B = 0.72565

C = 0.83508

D = 0.94169

E = 0.89372

n_1 = 6.17402

n_2 = 1.37808

n_3 = 1.19749

n_4 = 1.06192

$\frac{(A \cdot B)^{\frac{1}{8}}}{(B \cdot C \cdot D^2)^{\frac{1}{4}}}$ -E = 0.00000

$\frac{(n_2 \cdot n_3 \cdot n_4^2)^{\frac{1}{4}}}{(n_1 \cdot n_2)^{\frac{1}{8}}}$ -E = 0.00000

2SMT3R6

Given. $A := .19123$ $B := .60443$

$C := .88106$

Descriptions.

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$ $n_3 := \frac{1}{C}$

$bd := \frac{B}{A+B}$ $df := \sqrt{bd \cdot (1 - bd)}$ $ag := \frac{df}{bd}$

$bc := \frac{C}{ag + C}$ $ce := \sqrt{bc \cdot (1 - bc)}$ $D := \frac{ce}{bc}$

$D = 0.799005$

Definitions.

$$D - \frac{(A \cdot B)^{\frac{1}{4}}}{(B \cdot C)^{\frac{1}{2}}} = 0$$

$$D - \frac{\sqrt{n_2 \cdot n_3}}{(n_1 \cdot n_2)^{\frac{1}{4}}} = 0$$

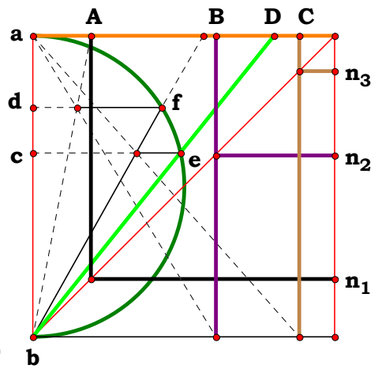
Unit = 1.00000

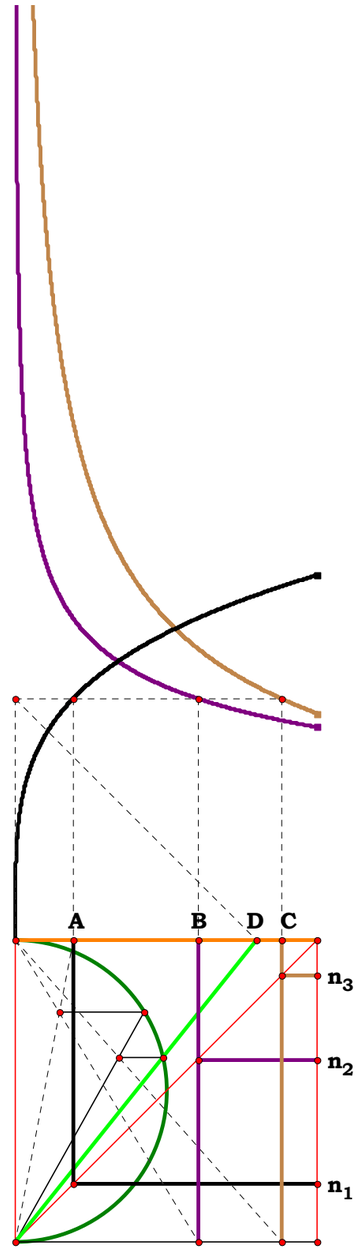
A = 0.19123
B = 0.60443
C = 0.88106
D = 0.79900

n_1 = 5.22936
n_2 = 1.65444
n_3 = 1.13499

$\frac{(A \cdot B)^{\frac{1}{4}}}{(B \cdot C)^{\frac{1}{2}}}$ -D = 0.00000

$\frac{\sqrt{n_2 \cdot n_3}}{(n_1 \cdot n_2)^{\frac{1}{4}}}$ -D = 0.00000





Unit = 1.00000

A = 0.19123
B = 0.60443
C = 0.88106
D = 0.79900

n_1 = 5.22936
n_2 = 1.65444
n_3 = 1.13499

$\frac{(A \cdot B)^{\frac{1}{4}}}{(B \cdot C)^{\frac{1}{2}}}$ -D = 0.00000

$\frac{\sqrt{n_2 \cdot n_3}}{(n_1 \cdot n_2)^{\frac{1}{4}}}$ -D = 0.00000

2SMT3R7

Given. $A := .50890$ $B := .64205$

$C := .818336$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$ $n_3 := \frac{1}{C}$

Descriptions.

$bA := \sqrt{A^2 + 1}$ $bd := \frac{1}{bA}$ $be := A \cdot \frac{bd}{bA}$

$ce := \frac{B - be}{B}$ $D := C \cdot ce$

$D = 0.303135$

Definitions.

$$D - \frac{C \cdot \left(A^2 \cdot B - A + B\right)}{B \cdot \left(A^2 + 1\right)} = 0$$

$$D - \frac{\left(n_1{}^2 - n_1 \cdot n_2 + 1\right)}{n_3 \cdot \left(n_1{}^2 + 1\right)} = 0$$

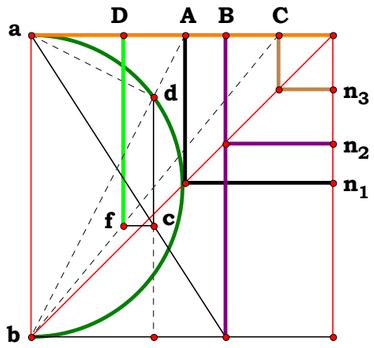
Unit = 1.00000

A = 0.50890
B = 0.64205
C = 0.81836
D = 0.30315

n_1 = 1.96504
n_2 = 1.55750
n_3 = 1.22195

$\frac{C \cdot ((A^2 \cdot B - A) + B)}{B \cdot (A^2 + 1)}$ -D = 0.00000

$\frac{(n_1{}^2 - n_1 \cdot n_2) + 1}{n_3 \cdot (n_1{}^2 + 1)}$ -D = 0.00000



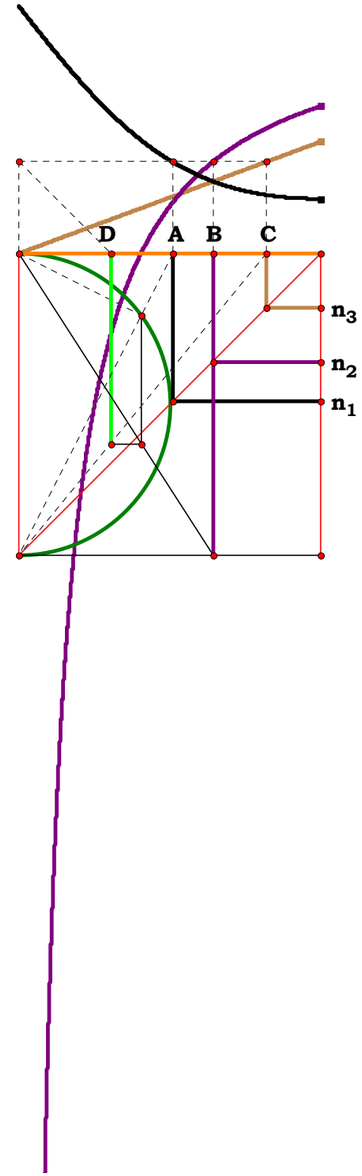
Unit = 1.00000

A = 0.50890
B = 0.64205
C = 0.81836
D = 0.30315

n_1 = 1.96504
n_2 = 1.55750
n_3 = 1.22195

$\frac{C \cdot ((A^2 \cdot B - A) + B)}{B \cdot (A^2 + 1)}$ -D = 0.00000

$\frac{(n_1{}^2 - n_1 \cdot n_2) + 1}{n_3 \cdot (n_1{}^2 + 1)}$ -D = 0.00000



2SMT3R8

Given. $A := .37932$ $B := .60025$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$

Descriptions.

$fg := \frac{B}{A+B}$ $cd := \sqrt{fg \cdot (1 - fg)}$

$C := \frac{cd}{fg}$

$C = 0.794944$

Definitions.

$C - \frac{(A \cdot B)^{\frac{1}{2}}}{B} = 0$

$C - \frac{n_2}{\sqrt{n_1 \cdot n_2}} = 0$

Unit = 1.00000

A = 0.37932

B = 0.60025

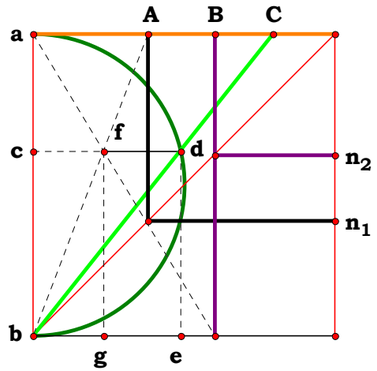
C = 0.79494

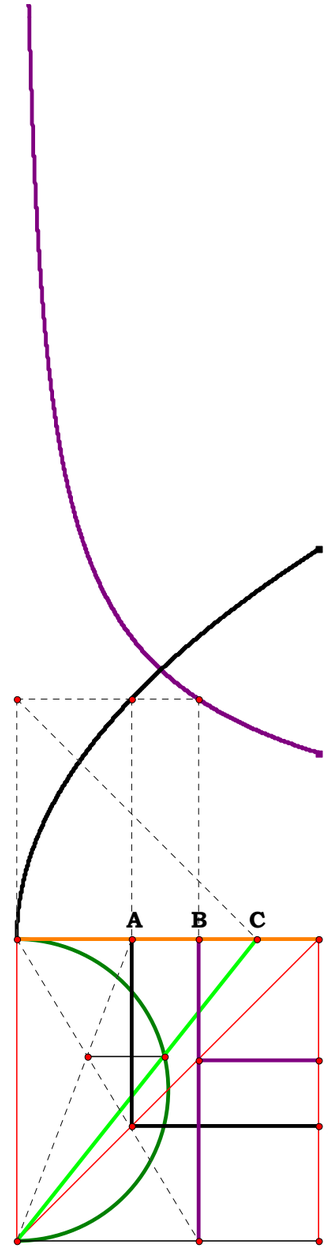
n_1 = 2.63629

n_2 = 1.66596

$\frac{\sqrt{A \cdot B}}{B}$-C = 0.00000

$\frac{n_2}{\sqrt{n_1 \cdot n_2}}$-C = 0.00000





Unit = 1.00000

A = 0.37932

B = 0.60025

C = 0.79494

n_1 = 2.63629

n_2 = 1.66596

$\frac{\sqrt{A \cdot B}}{B}$-C = 0.00000

$\frac{n_2}{\sqrt{n_1 \cdot n_2}}$-C = 0.00000

2SMT3R9

Given. $A := .10763$ $B := .46650$ $C := .85180$

$$n_1 := \frac{1}{A} \quad n_2 := \frac{1}{B} \quad n_3 := \frac{1}{C}$$

Descriptions.

$$bd := \frac{B}{A+B} \qquad df := \sqrt{bd \cdot (1 - bd)} \qquad ac := \frac{df}{C}$$

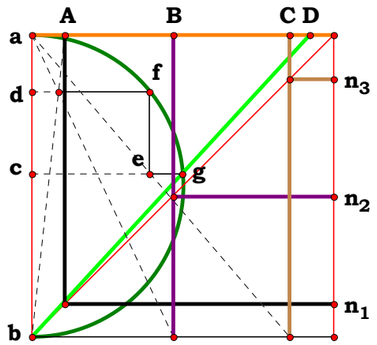
$$cg := \sqrt{ac \cdot (1 - ac)} \qquad D := \frac{cg}{1 - ac}$$

$D = 0.919599$

Definitions.

$$D - \frac{\sqrt{\sqrt{A \cdot B} \cdot C \cdot (A+B) - A \cdot B}}{A \cdot C - \sqrt{A \cdot B} + B \cdot C} = 0$$

$$D - \frac{n_1 \cdot n_2 \cdot n_3 \cdot \sqrt{n_1 \cdot n_2 \cdot \left[\left(n_1 + n_2\right) - n_3 \cdot \sqrt{n_1 \cdot n_2}\right]}}{\left[\sqrt{n_1 \cdot n_2} \cdot \left(n_1 + n_2\right) - n_1 \cdot n_2 \cdot n_3\right] \cdot \sqrt{n_1 \cdot n_2 \cdot n_3 \cdot \sqrt{n_1 \cdot n_2}}} = 0$$



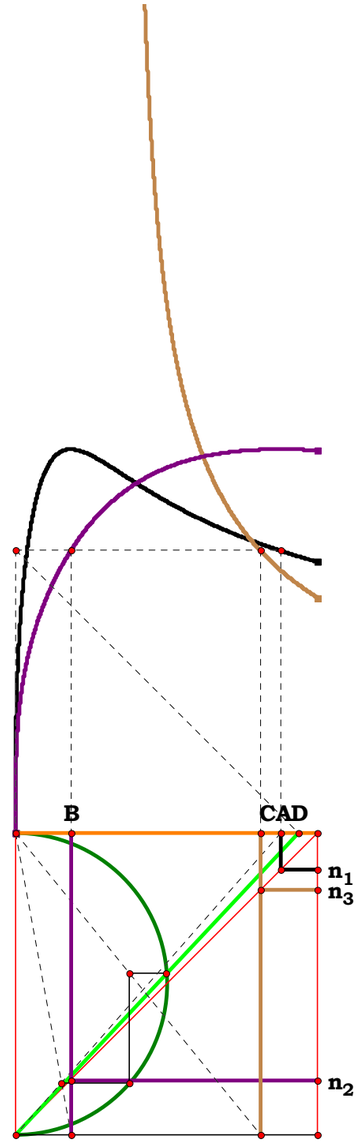
Unit = 1.00000

A = 0.10763
B = 0.46650
C = 0.85180
D = 0.91960

n_1 = 9.29099
n_2 = 2.14362
n_3 = 1.17398

$$\frac{\sqrt{\sqrt{A \cdot B} \cdot C \cdot (A+B) - A \cdot B}}{\left(A \cdot C - \sqrt{A \cdot B}\right) + B \cdot C} - D = 0.00000$$

$$\frac{n_1 \cdot n_2 \cdot n_3 \cdot \sqrt{n_1 \cdot n_2 \cdot \left(\left(n_1 + n_2\right) - n_3 \cdot \sqrt{n_1 \cdot n_2}\right)}}{\left(\sqrt{n_1 \cdot n_2} \cdot \left(n_1 + n_2\right) - n_1 \cdot n_2 \cdot n_3\right) \cdot \sqrt{n_1 \cdot n_2 \cdot n_3 \cdot \sqrt{n_1 \cdot n_2}}} - D = 0.00000$$



Unit = 1.00000

A = 0.87672
B = 0.18227
C = 0.81000
D = 0.93421

n_1 = 1.14061
n_2 = 5.48633
n_3 = 1.23456

$$\frac{\sqrt{\sqrt{A \cdot B} \cdot C \cdot (A+B) - A \cdot B}}{\left(A \cdot C - \sqrt{A \cdot B}\right) + B \cdot C} - D = 0.00000$$

$$\frac{n_1 \cdot n_2 \cdot n_3 \cdot \sqrt{n_1 \cdot n_2 \cdot \left(\left(n_1 + n_2\right) - n_3 \cdot \sqrt{n_1 \cdot n_2}\right)}}{\left(\sqrt{n_1 \cdot n_2} \cdot \left(n_1 + n_2\right) - n_1 \cdot n_2 \cdot n_3\right) \cdot \sqrt{n_1 \cdot n_2 \cdot n_3 \cdot \sqrt{n_1 \cdot n_2}}} - D = 0.00000$$

2SMT3R10

Given. $A := .86000$ $B := .76745$

$C := .19975$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$ $n_3 := \frac{1}{C}$

Descriptions.

$bA := \sqrt{A^2 + 1}$ $bd := \frac{1}{bA}$ $be := \frac{A \cdot bd}{bA}$

$fC := \frac{be}{B}$ $D := \frac{C}{1 - fC}$

$D = 0.56136$

Definitions.

$$D - \frac{B \cdot C \cdot \left(A^2 + 1\right)}{A^2 \cdot B - A + B} = 0$$

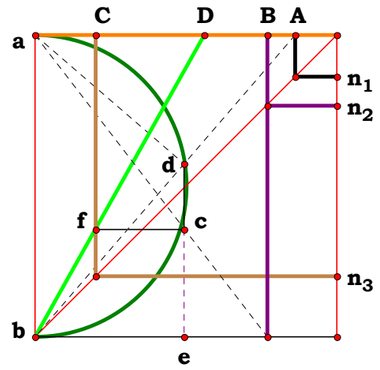
$$D - \frac{\left(n_1{}^2 + 1\right)}{n_3 \cdot \left(n_1{}^2 - n_1 \cdot n_2 + 1\right)} = 0$$

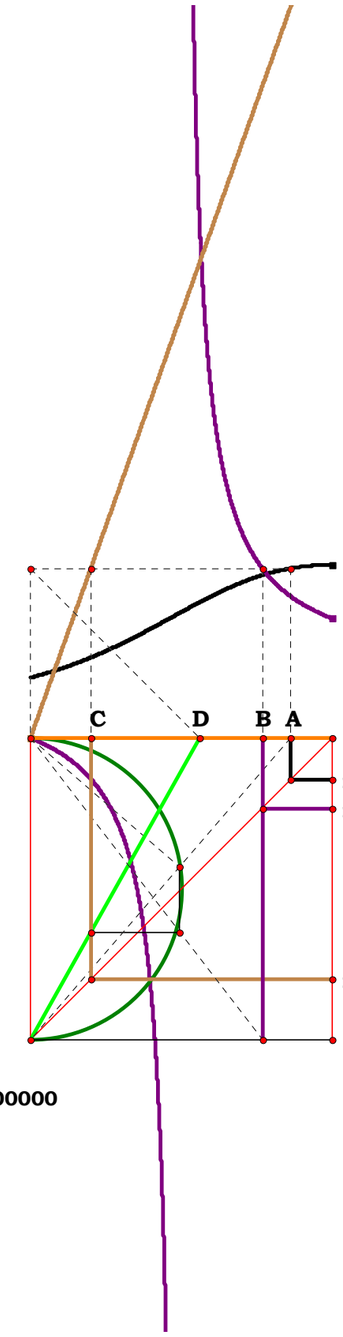
Unit = 1.00000
A = 0.86000
B = 0.76745
C = 0.19975
D = 0.56136

n_1 = 1.16279
n_2 = 1.30302
n_3 = 5.00629

$\frac{B \cdot C \cdot (A^2+1)}{(A^2 \cdot B - A)+B} - D = 0.00000$

$\frac{n_1{}^2+1}{n_3 \cdot ((n_1{}^2 - n_1 \cdot n_2)+1)} - D = 0.00000$





Unit = 1.00000
A = 0.86000
B = 0.76745
C = 0.19975
D = 0.56136

n_1 = 1.16279
n_2 = 1.30302
n_3 = 5.00629

$\frac{B \cdot C \cdot (A^2+1)}{(A^2 \cdot B - A)+B} - D = 0.00000$

$\frac{n_1{}^2+1}{n_3 \cdot ((n_1{}^2 - n_1 \cdot n_2)+1)} - D = 0.00000$

2SMT3R11

Given. $A := .87672$ $B := .54592$

$C := .73895$ $D := .15588$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$ $n_3 := \frac{1}{C}$ $n_4 := \frac{1}{D}$

Descriptions.

$bc := \frac{B}{A+B}$ $ce := \sqrt{bc \cdot (1 - bc)}$

$fD := \frac{ce}{C}$ $E := \frac{D}{1 - fD}$

$E = 0.455909$

Definitions.

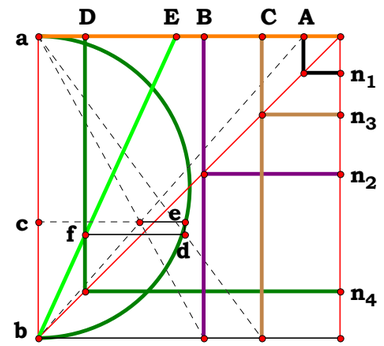
$$E - \frac{C \cdot D \cdot (A+B)}{C \cdot (A+B) - \sqrt{A \cdot B}} = 0$$

$$E - \frac{(n_1+n_2) \cdot \sqrt{n_1 \cdot n_2}}{n_4 \cdot \left[\sqrt{n_1 \cdot n_2} \cdot (n_1+n_2) - n_1 \cdot n_2 \cdot n_3\right]} = 0$$

Unit = 1.00000

A = 0.87672
B = 0.54592
C = 0.73895
D = 0.15588
E = 0.45592

n_1 = 1.14061
n_2 = 1.83178
n_3 = 1.35328
n_4 = 6.41505



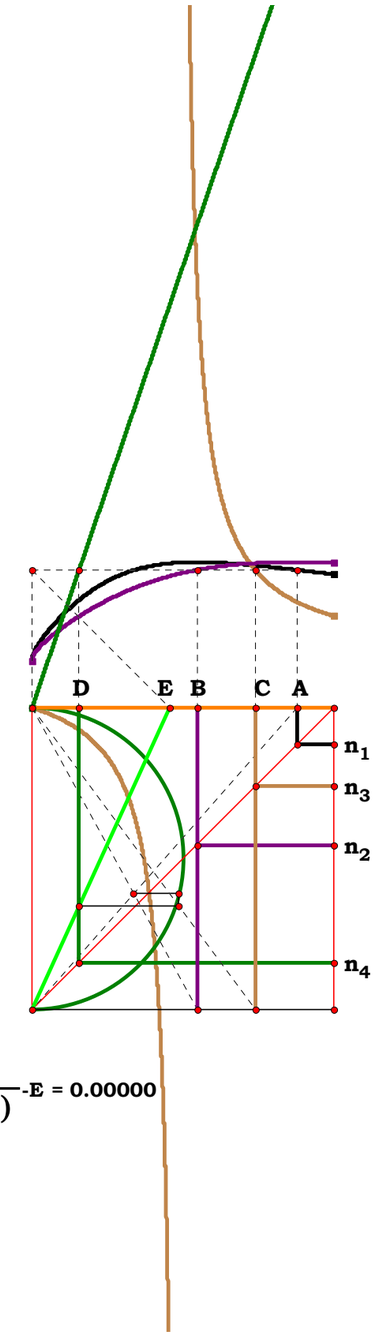
$\frac{C \cdot D \cdot (A+B)}{C \cdot (A+B) - \sqrt{A \cdot B}} - E = 0.00000$

$\frac{(n_1+n_2) \cdot \sqrt{n_1 \cdot n_2}}{n_4 \cdot \left(\sqrt{n_1 \cdot n_2} \cdot (n_1+n_2) - n_1 \cdot n_2 \cdot n_3\right)} - E = 0.00000$

Unit = 1.00000

A = 0.87672
B = 0.54592
C = 0.73895
D = 0.15588
E = 0.45592

n_1 = 1.14061
n_2 = 1.83178
n_3 = 1.35328
n_4 = 6.41505



$\frac{C \cdot D \cdot (A+B)}{C \cdot (A+B) - \sqrt{A \cdot B}} - E = 0.00000$

$\frac{(n_1+n_2) \cdot \sqrt{n_1 \cdot n_2}}{n_4 \cdot \left(\sqrt{n_1 \cdot n_2} \cdot (n_1+n_2) - n_1 \cdot n_2 \cdot n_3\right)} - E = 0.00000$

2SMT4R0

Given. $A := .57995$ $B := .36618$

$C := .76821$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$ $n_3 := \frac{1}{C}$

Descriptions.

$bA := \sqrt{A^2 + 1}$ $bd := \frac{1}{bA}$ $be := \frac{A \cdot bd}{bA}$

$ce := \frac{be}{C}$ $bj := \frac{B}{1 - ce}$ $aj := \sqrt{1 + bj^2}$

$af := \frac{1}{aj}$ $D := \frac{bj \cdot af}{aj}$

$D = 0.492662$

Definitions.

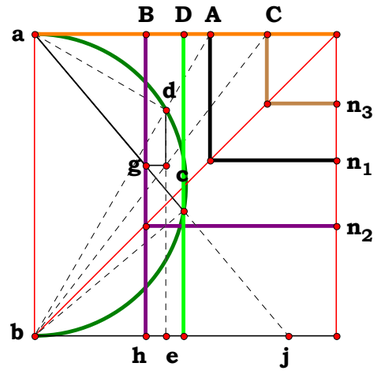
$$D - \frac{B \cdot C \cdot \left(A^2 + 1\right) \cdot \left(A^2 \cdot C - A + C\right)}{A^2 + C^2 \cdot \left(A^2 + 1\right)^2 \cdot \left(B^2 + 1\right) - 2 \cdot A \cdot C \cdot \left(A^2 + 1\right)} = 0$$

$$D - \frac{n_2 \cdot \left(n_1^2 + 1\right) \cdot \left(n_1^2 - n_1 \cdot n_3 + 1\right)}{\left(n_1^2 + 1\right)^2 + n_2^2 \cdot \left(n_1^2 - n_1 \cdot n_3 + 1\right)^2} = 0$$

Unit = 1.00000

A = 0.57995
B = 0.36618
C = 0.76821
D = 0.49266

n_1 = 1.72428
n_2 = 2.73087
n_3 = 1.30173



$$\frac{B \cdot C \cdot (A^2+1) \cdot ((A^2 \cdot C - A) + C)}{(A^2 + C^2 \cdot (A^2+1)^2 \cdot (B^2+1)) - 2 \cdot A \cdot C \cdot (A^2+1)} - D = 0.00000$$

$$\frac{n_2 \cdot (n_1^2+1) \cdot ((n_1^2 - n_1 \cdot n_3) + 1)}{(n_1^2+1)^2 + n_2^2 \cdot ((n_1^2 - n_1 \cdot n_3) + 1)^2} - D = 0.00000$$

2SMT4R1

Given. $A := .45456$ $B := .29513$ $C := .65953$ $D := .86645$

$$n_1 := \frac{1}{A} \quad n_2 := \frac{1}{B} \quad n_3 := \frac{1}{C} \quad n_4 := \frac{1}{D}$$

Descriptions.

$$ce := C \cdot \frac{B}{A} \qquad bc := \frac{1}{2} - \sqrt{\left(\frac{1}{2}\right)^2 - ce^2}$$

$$bf := \frac{ce}{1 - bc} \qquad E := \frac{D \cdot bf}{bf + D}$$

$E = 0.341925$

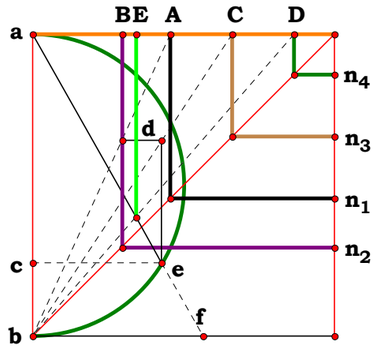
Definitions.

$$E - \frac{2 \cdot A \cdot B \cdot C \cdot D}{A \cdot D \cdot \sqrt{A^2 - 4 \cdot B^2 \cdot C^2} + A \cdot (A \cdot D + 2 \cdot B \cdot C)} = 0$$

$$E - \frac{2 \cdot n_1}{\sqrt{n_2^2 \cdot n_3^2 - 4 \cdot n_1^2} + (2 \cdot n_1 \cdot n_4 + n_2 \cdot n_3)} = 0$$

Unit = 1.00000

A = 0.45456
B = 0.29513
C = 0.65953
D = 0.86645
E = 0.34192



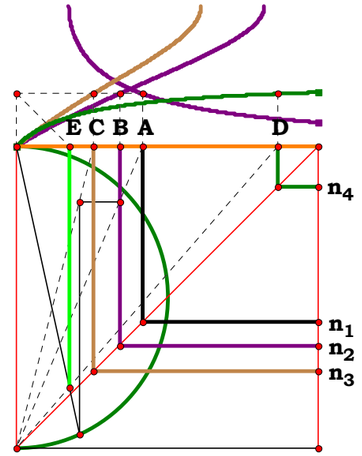
n_1 = 2.19994
n_2 = 3.38837
n_3 = 1.51623
n_4 = 1.15413

$$\frac{2 \cdot A \cdot B \cdot C \cdot D}{A \cdot D \cdot \sqrt{A^2 - 4 \cdot B^2 \cdot C^2} + A \cdot (A \cdot D + 2 \cdot B \cdot C)} - E = 0.00000$$

$$\frac{2 \cdot n_1}{\sqrt{n_2^2 \cdot n_3^2 - 4 \cdot n_1^2} + 2 \cdot n_1 \cdot n_4 + n_2 \cdot n_3} - E = 0.00000$$

Unit = 1.00000

A = 0.41694
B = 0.34110
C = 0.25409
D = 0.86645
E = 0.17400



n_1 = 2.39843
n_2 = 2.93165
n_3 = 3.93566
n_4 = 1.15413

$$\frac{2 \cdot A \cdot B \cdot C \cdot D}{A \cdot D \cdot \sqrt{A^2 - 4 \cdot B^2 \cdot C^2} + A \cdot (A \cdot D + 2 \cdot B \cdot C)} - E = 0.00000$$

$$\frac{2 \cdot n_1}{\sqrt{n_2^2 \cdot n_3^2 - 4 \cdot n_1^2} + 2 \cdot n_1 \cdot n_4 + n_2 \cdot n_3} - E = 0.00000$$

2SMT4R2

Given. $A := .86000$ $B := .76745$

$C := .67625$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$ $n_3 := \frac{1}{C}$

Descriptions.

$bA := \sqrt{A^2 + 1}$ $be := \frac{1}{bA}$

$bf := \frac{A \cdot be}{bA}$ $df := \frac{bf}{C}$

$bj := \frac{B}{1 - df}$ $D := \frac{1}{bj}$

$D = 0.350458$

Definitions.

$$D - \frac{A^2 \cdot C + C - A}{A^2 \cdot B \cdot C + B \cdot C} = 0$$

$$D - \frac{n_2 \cdot \left({n_1}^2 - n_1 \cdot n_3 + 1 \right)}{{n_1}^2 + 1} = 0$$

Unit = 1.00000

A = 0.86000

B = 0.76745

C = 0.67625

D = 0.35046

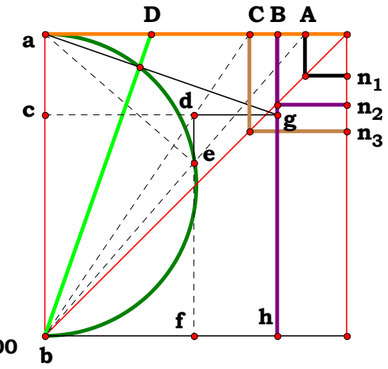
n_1 = 1.16279

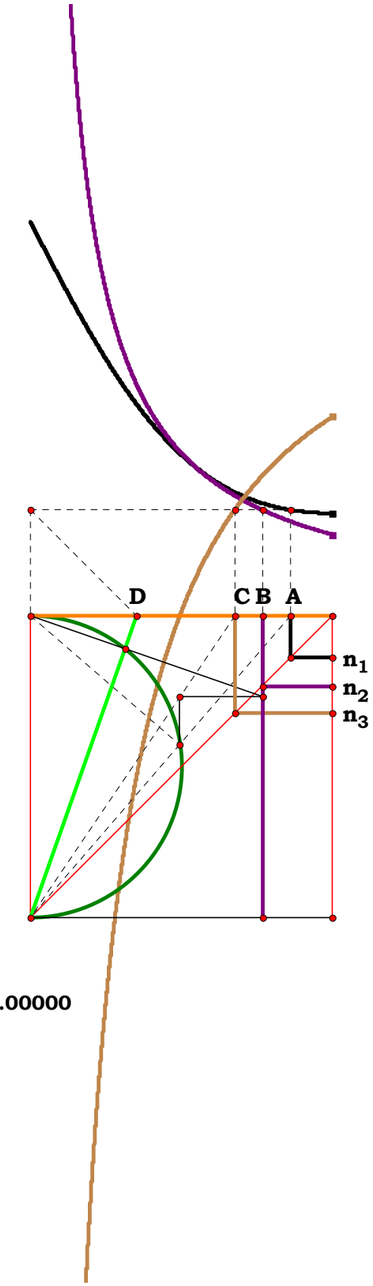
n_2 = 1.30302

n_3 = 1.47874

$\frac{(A^2 \cdot C + C) - A}{A^2 \cdot B \cdot C + B \cdot C} - D = 0.00000$

$\frac{n_2 \cdot ((n_1^2 - n_1 \cdot n_3) + 1)}{n_1^2 + 1} - D = 0.00000$





Unit = 1.00000

A = 0.86000

B = 0.76745

C = 0.67625

D = 0.35046

n_1 = 1.16279

n_2 = 1.30302

n_3 = 1.47874

$\frac{(A^2 \cdot C + C) - A}{A^2 \cdot B \cdot C + B \cdot C} - D = 0.00000$

$\frac{n_2 \cdot ((n_1^2 - n_1 \cdot n_3) + 1)}{n_1^2 + 1} - D = 0.00000$

2SMT4R3

Given. $A := .79730$ $B := .70057$

$C := .50070$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$ $n_3 := \frac{1}{C}$

Descriptions.

$gh := \frac{B}{A}$ $ce := C \cdot gh$ $cd := \sqrt{\left(\frac{1}{2}\right)^2 - ce^2}$

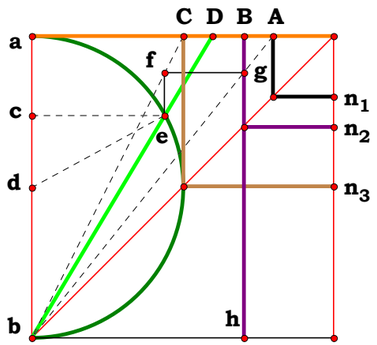
$be := \frac{1}{2} + cd$ $D := \frac{ce}{be}$

$D = 0.59649$

Definitions.

$$D - \frac{2 \cdot A \cdot B \cdot C}{\sqrt{\left(A^4 - 4 \cdot A^2 \cdot B^2 \cdot C^2\right)} + A^2} = 0$$

$$D - \frac{2 \cdot n_1}{\sqrt{n_2^2 \cdot n_3^2 - 4 \cdot n_1^2} + n_2 \cdot n_3} = 0$$



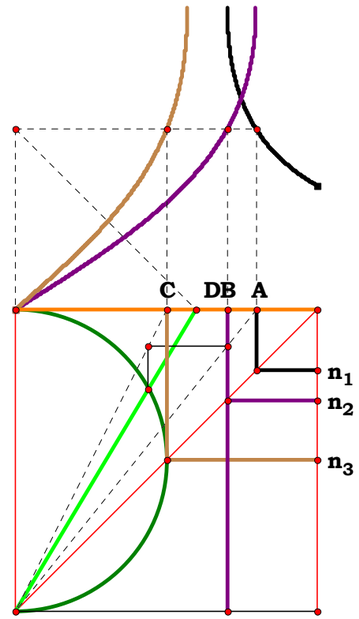
Unit = 1.00000

A = 0.79730
B = 0.70057
C = 0.50070
D = 0.59648

n_1 = 1.25423
n_2 = 1.42741
n_3 = 1.99722

$$\frac{2 \cdot A \cdot B \cdot C}{A^2 + \sqrt{A^4 - 4 \cdot A^2 \cdot B^2 \cdot C^2}} - D = 0.00000$$

$$\frac{2 \cdot n_1}{n_2 \cdot n_3 + \sqrt{n_2^2 \cdot n_3^2 - 4 \cdot n_1^2}} - D = 0.00000$$



Unit = 1.00000

A = 0.79730
B = 0.70057
C = 0.50070
D = 0.59648

n_1 = 1.25423
n_2 = 1.42741
n_3 = 1.99722

$$\frac{2 \cdot A \cdot B \cdot C}{A^2 + \sqrt{A^4 - 4 \cdot A^2 \cdot B^2 \cdot C^2}} - D = 0.00000$$

$$\frac{2 \cdot n_1}{n_2 \cdot n_3 + \sqrt{n_2^2 \cdot n_3^2 - 4 \cdot n_1^2}} - D = 0.00000$$

2SMT4R4

Given. $A := .82238$ $B := .60443$

$$n_1 := \frac{1}{A} \quad n_2 := \frac{1}{B}$$

Descriptions.

$$bA := \sqrt{A^2 + 1} \qquad be := \frac{1}{bA}$$

$$bf := \frac{A \cdot be}{bA} \qquad df := \frac{bf}{B}$$

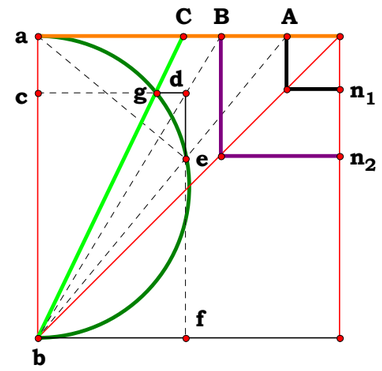
$$eg := \sqrt{df \cdot (1 - df)} \qquad C := \frac{eg}{df}$$

$C = 0.481713$

Definitions.

$$C - \frac{\sqrt{A \cdot B^2 \cdot \left(A^2 \cdot B - A + B\right)}}{A \cdot B} = 0$$

$$C - \frac{n_1 \cdot n_2 \cdot \sqrt{n_1^{\,2} - n_1 \cdot n_2 + 1}}{\sqrt{n_1^{\,3} \cdot n_2^{\,3}}} = 0$$



Unit = 1.00000

A = 0.82238

B = 0.60443

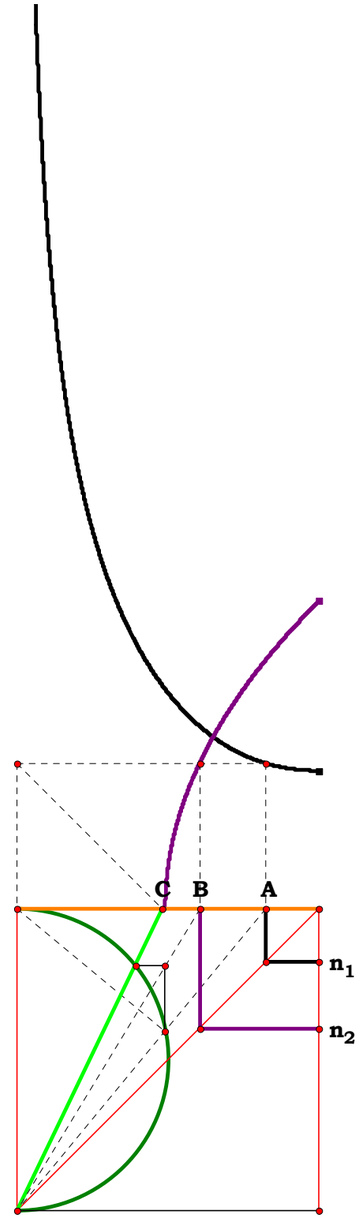
C = 0.48172

n_1 = 1.21598

n_2 = 1.65444

$$\frac{\sqrt{A \cdot B^2 \cdot ((A^2 \cdot B - A) + B)}}{A \cdot B} - C = 0.00000$$

$$\frac{n_1 \cdot n_2 \cdot \sqrt{(n_1^{\,2} - n_1 \cdot n_2) + 1}}{\sqrt{n_1^{\,3} \cdot n_2^{\,3}}} - C = 0.00000$$



Unit = 1.00000

A = 0.82238

B = 0.60443

C = 0.48172

n_1 = 1.21598

n_2 = 1.65444

$$\frac{\sqrt{A \cdot B^2 \cdot ((A^2 \cdot B - A) + B)}}{A \cdot B} - C = 0.00000$$

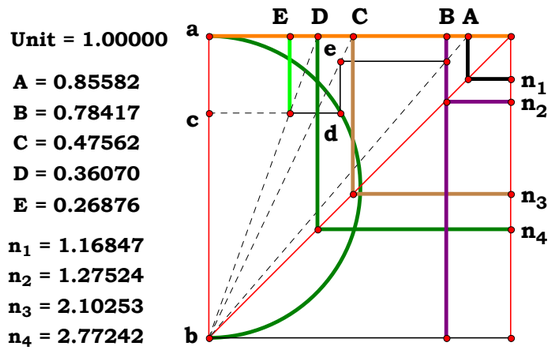
$$\frac{n_1 \cdot n_2 \cdot \sqrt{(n_1^{\,2} - n_1 \cdot n_2) + 1}}{\sqrt{n_1^{\,3} \cdot n_2^{\,3}}} - C = 0.00000$$

2SMT4R5

Given. $A := .85582$ $B := .78417$

$C := .47562$ $D := .36070$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$ $n_3 := \frac{1}{C}$ $n_4 := \frac{1}{D}$



$\frac{D\cdot\left(A+\sqrt{A^2-4\cdot B^2\cdot C^2}\right)}{2\cdot A}-E = 0.00000$

$\frac{n_2\cdot n_3+\sqrt{n_2^2\cdot n_3^2-4\cdot n_1^2}}{2\cdot n_2\cdot n_3\cdot n_4}-E = 0.00000$

Descriptions.

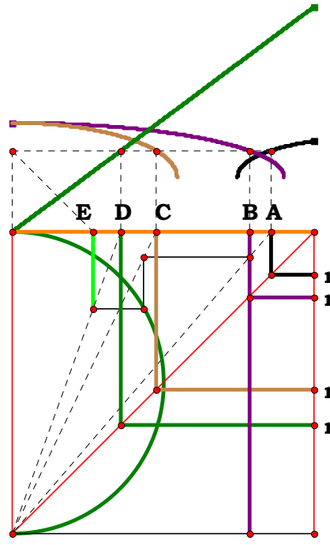
$cd := C\cdot\frac{B}{A}$ $ac := \frac{1}{2}-\sqrt{\left(\frac{1}{2}\right)^2-cd^2}$ $E := D\cdot(1-ac)$

$E = 0.26876$

Definitions.

$E-\frac{D\cdot\left(\sqrt{A^2-4\cdot B^2\cdot C^2}+A\right)}{2\cdot A} = 0$

$E-\frac{\sqrt{n_2^2\cdot n_3^2-4\cdot n_1^2}+n_2\cdot n_3}{2\cdot n_4\cdot n_2\cdot n_3} = 0$



$\frac{D\cdot\left(A+\sqrt{A^2-4\cdot B^2\cdot C^2}\right)}{2\cdot A}-E = 0.00000$

$\frac{n_2\cdot n_3+\sqrt{n_2^2\cdot n_3^2-4\cdot n_1^2}}{2\cdot n_2\cdot n_3\cdot n_4}-E = 0.00000$

2SMT4R6

Given. $A := .90180$ $B := .73819$

$C := .58847$ $D := .33562$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$ $n_3 := \frac{1}{C}$ $n_4 := \frac{1}{D}$

Descriptions.

$ce := C \cdot \frac{B}{A}$ $ac := \frac{1}{2} - \sqrt{\left(\frac{1}{2}\right)^2 - ce^2}$ $E := \frac{D}{1 - ac}$

$E = 0.529359$

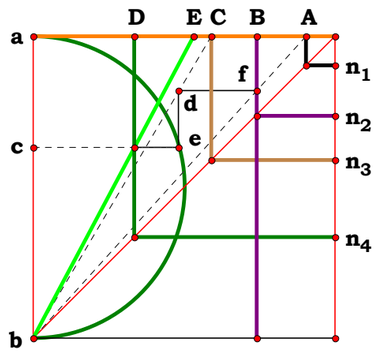
Definitions.

$$E - \frac{2 \cdot A \cdot D}{\sqrt{A^2 - 4 \cdot B^2 \cdot C^2} + A} = 0$$

$$E - \frac{2 \cdot n_2 \cdot n_3}{n_4 \cdot \left(\sqrt{n_2^2 \cdot n_3^2 - 4 \cdot n_1^2} + n_2 \cdot n_3\right)} = 0$$

Unit = 1.00000

A = 0.90180
B = 0.73819
C = 0.58847
D = 0.33562
E = 0.52936



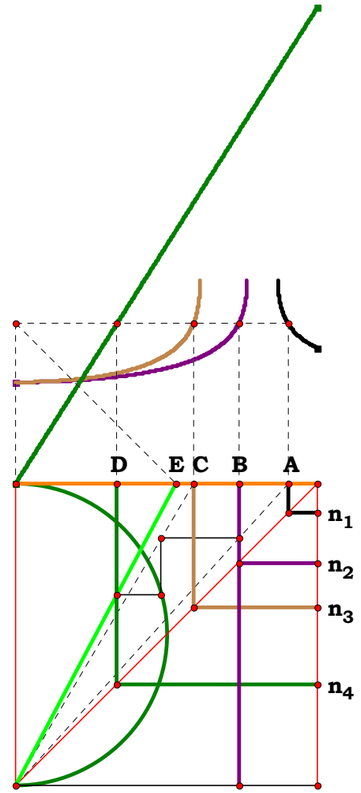
$n_1 = 1.10889$
$n_2 = 1.35467$
$n_3 = 1.69931$
$n_4 = 2.97959$

$$\frac{2 \cdot A \cdot D}{A + \sqrt{A^2 - 4 \cdot B^2 \cdot C^2}} - E = 0.00000$$

$$\frac{2 \cdot n_2 \cdot n_3}{n_4 \cdot \left(n_2 \cdot n_3 + \sqrt{n_2^2 \cdot n_3^2 - 4 \cdot n_1^2}\right)} - E = 0.00000$$

Unit = 1.00000

A = 0.90180
B = 0.73819
C = 0.58847
D = 0.33562
E = 0.52936



$n_1 = 1.10889$
$n_2 = 1.35467$
$n_3 = 1.69931$
$n_4 = 2.97959$

$$\frac{2 \cdot A \cdot D}{A + \sqrt{A^2 - 4 \cdot B^2 \cdot C^2}} - E = 0.00000$$

$$\frac{2 \cdot n_2 \cdot n_3}{n_4 \cdot \left(n_2 \cdot n_3 + \sqrt{n_2^2 \cdot n_3^2 - 4 \cdot n_1^2}\right)} - E = 0.00000$$

2SMT4R7

Given. $A := .32916$ $B := .62951$ $C := .41710$

$$n_1 := \frac{1}{A} \quad n_2 := \frac{1}{B} \quad n_3 := \frac{1}{C}$$

Descriptions.

$$bA := \sqrt{A^2 + 1} \qquad bd := \frac{1}{bA} \qquad be := \frac{A \cdot bd}{bA}$$

$$ce := \frac{be}{C} \qquad D := \frac{B}{ce} \qquad D = 0.88412$$

Definitions.

$$D - \frac{A^2 \cdot B \cdot C + B \cdot C}{A} = 0$$

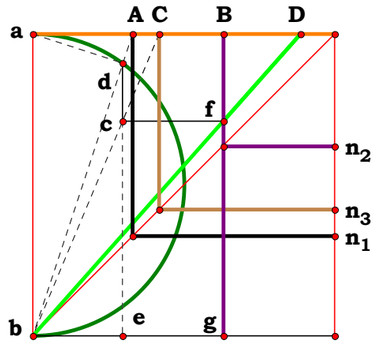
$$D - \frac{n_1{}^2 + 1}{n_1 \cdot n_2 \cdot n_3} = 0$$

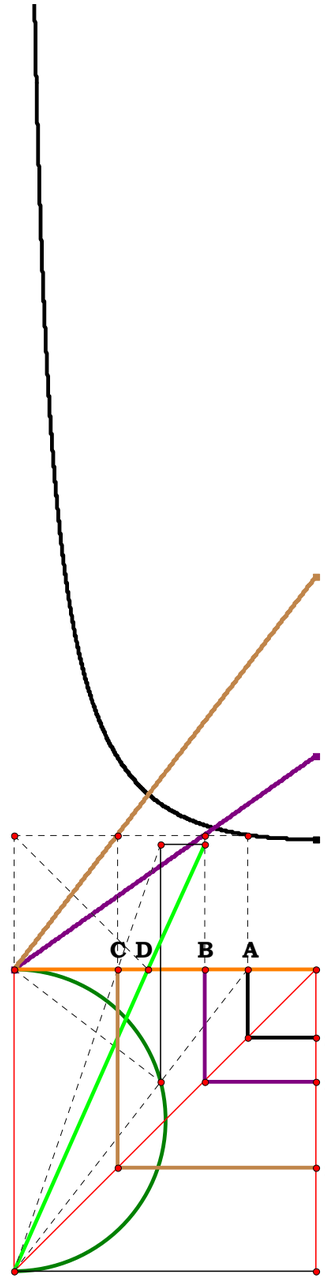
Unit = 1.00000
A = 0.32916
B = 0.62951
C = 0.41710
D = 0.88412

n_1 = 3.03802
n_2 = 1.58853
n_3 = 2.39751

$\frac{A^2 \cdot B \cdot C + B \cdot C}{A} - D = 0.00000$

$\frac{n_1{}^2 + 1}{n_1 \cdot n_2 \cdot n_3} - D = 0.00000$



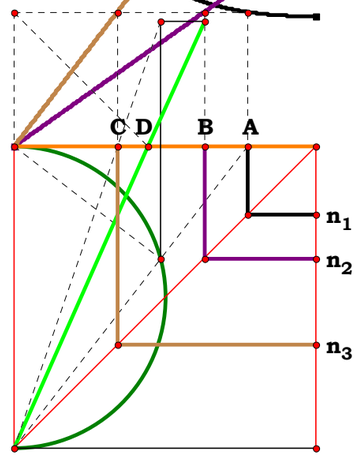


Unit = 1.00000
A = 0.77222
B = 0.62951
C = 0.34186
D = 0.44487

n_1 = 1.29496
n_2 = 1.58853
n_3 = 2.92515

$\frac{A^2 \cdot B \cdot C + B \cdot C}{A} - D = 0.00000$

$\frac{n_1{}^2 + 1}{n_1 \cdot n_2 \cdot n_3} - D = 0.00000$



2SMT4R9

Given. $A := .86000$ $B := .76745$ $C := .58429$ $D := .67418$ $E := .47216$ $F := .26318$

$$n_1 := \frac{1}{A} \quad n_2 := \frac{1}{B} \quad n_3 := \frac{1}{C} \quad n_4 := \frac{1}{D} \quad n_5 := \frac{1}{E} \quad n_6 := \frac{1}{F}$$

Descriptions.

$$bA := \sqrt{1 + A^2} \qquad bg := \frac{1}{bA} \qquad bh := A \cdot \frac{bg}{bA}$$

$$fh := \frac{bh}{B} \qquad cd := \frac{C}{D} \cdot E \qquad ac := \frac{1}{2} - \sqrt{\left(\frac{1}{2}\right)^2 - cd^2}$$

$$aj := F \cdot (1 - ac) \qquad G := \frac{aj}{fh} \qquad G = 0.321664$$

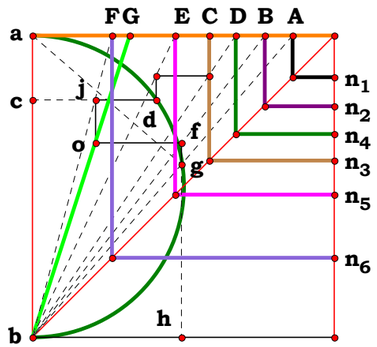
Definitions.

$$G - \frac{B \cdot F \cdot \left(A^2 + 1\right) \cdot \left(\sqrt{D^2 - 4 \cdot C^2 \cdot E^2} + D\right)}{2 \cdot A \cdot D} = 0$$

$$G - \frac{\left(\sqrt{{n_3}^2 \cdot {n_5}^2 - 4 \cdot {n_4}^2} + n_3 \cdot n_5\right) \cdot \left({n_1}^2 + 1\right)}{2 \cdot n_1 \cdot n_2 \cdot n_3 \cdot n_5 \cdot n_6} = 0$$

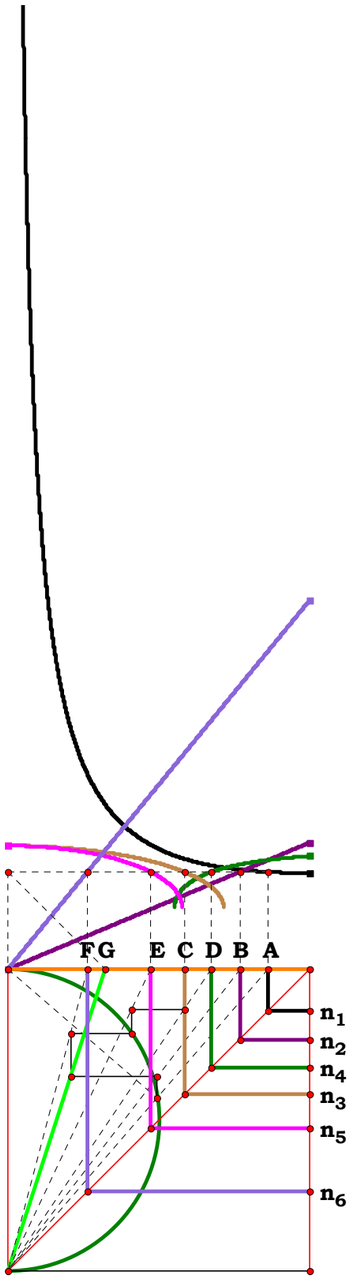
Unit = 1.00000
A = 0.86000
B = 0.76745
C = 0.58429
D = 0.67418
E = 0.47216
F = 0.26318
G = 0.32166

n_1 = 1.16279
n_2 = 1.30302
n_3 = 1.71147
n_4 = 1.48328
n_5 = 2.11793
n_6 = 3.79973



$$\frac{B \cdot F \cdot \left(A^2+1\right) \cdot \left(D+\sqrt{D^2-4 \cdot C^2 \cdot E^2}\right)}{2 \cdot A \cdot D} - G = 0.00000$$

$$\frac{\left(n_1{}^2+1\right) \cdot \left(n_3 \cdot n_5+\sqrt{n_3{}^2 \cdot n_5{}^2-4 \cdot n_4{}^2}\right)}{2 \cdot n_1 \cdot n_2 \cdot n_3 \cdot n_5 \cdot n_6} - G = 0.00000$$



Unit = 1.00000
A = 0.86000
B = 0.76745
C = 0.58429
D = 0.67418
E = 0.47216
F = 0.26318
G = 0.32166

n_1 = 1.16279
n_2 = 1.30302
n_3 = 1.71147
n_4 = 1.48328
n_5 = 2.11793
n_6 = 3.79973

$$\frac{B \cdot F \cdot \left(A^2+1\right) \cdot \left(D+\sqrt{D^2-4 \cdot C^2 \cdot E^2}\right)}{2 \cdot A \cdot D} - G = 0.00000$$

$$\frac{\left(n_1{}^2+1\right) \cdot \left(n_3 \cdot n_5+\sqrt{n_3{}^2 \cdot n_5{}^2-4 \cdot n_4{}^2}\right)}{2 \cdot n_1 \cdot n_2 \cdot n_3 \cdot n_5 \cdot n_6} - G = 0.00000$$

2SMT4R10

Given. $A := .86000$ $B := .76745$ $C := .47562$ $D := .69508$ $E := .16703$

$$n_1 := \frac{1}{A} \quad n_2 := \frac{1}{B} \quad n_3 := \frac{1}{C} \quad n_4 := \frac{1}{D} \quad n_5 := \frac{1}{E}$$

Descriptions.

$$cd := C \cdot \frac{B}{A} \qquad bc := \frac{1}{2} - \sqrt{\left(\frac{1}{2}\right)^2 - cd^2}$$

$$be := \frac{cd}{1 - bc} \qquad fg := \frac{be}{be + D} \qquad F := \frac{E}{fg}$$

$F = 0.376095$

Definitions.

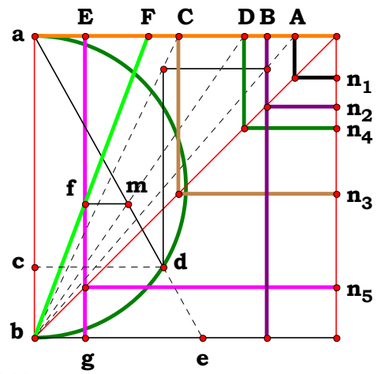
$$F - \frac{E \cdot (A \cdot D + 2 \cdot B \cdot C) + D \cdot E \cdot \sqrt{A^2 - 4 \cdot B^2 \cdot C^2}}{2 \cdot B \cdot C} = 0$$

$$F - \frac{\sqrt{n_2^2 \cdot n_3^2 - 4 \cdot n_1^2} + (2 \cdot n_1 \cdot n_4 + n_2 \cdot n_3)}{2 \cdot n_1 \cdot n_4 \cdot n_5} = 0$$

Unit = 1.00000

A = 0.86000
B = 0.76745
C = 0.47562
D = 0.69508
E = 0.16703
F = 0.37610

$n_1 = 1.16279$
$n_2 = 1.30302$
$n_3 = 2.10253$
$n_4 = 1.43868$
$n_5 = 5.98690$



$\sqrt{A^2-4\cdot B^2\cdot C^2} = 0.45461$

$\sqrt{n_2^2\cdot n_3^2-4\cdot n_1^2} = 1.44821$

$\frac{E\cdot(A\cdot D+2\cdot B\cdot C)+D\cdot E\cdot\sqrt{A^2-4\cdot B^2\cdot C^2}}{2\cdot B\cdot C}-F = 0.00000$

$\frac{2\cdot n_1\cdot n_4+n_2\cdot n_3+\sqrt{n_2^2\cdot n_3^2-4\cdot n_1^2}}{2\cdot n_1\cdot n_4\cdot n_5}-F = 0.00000$

Unit = 1.00000

A = 0.86000
B = 0.76745
C = 0.47562
D = 0.69508
E = 0.16703
F = 0.37610

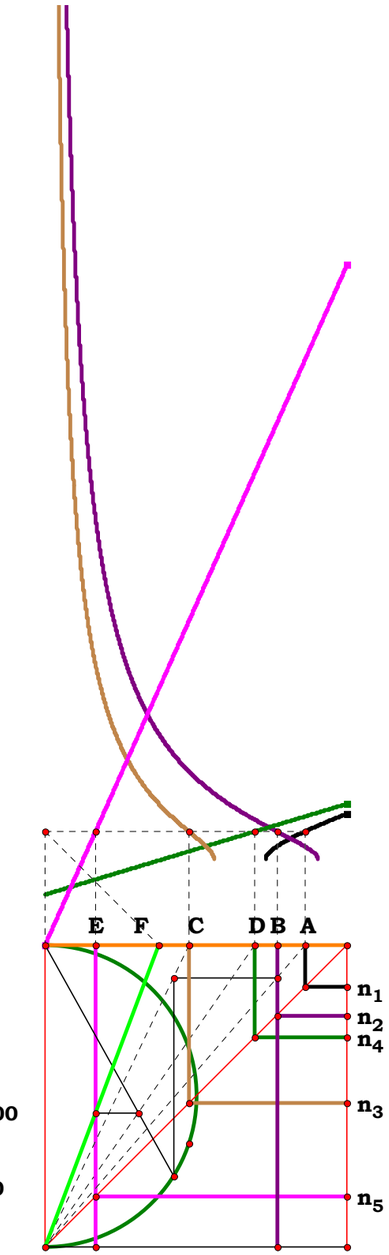
$n_1 = 1.16279$
$n_2 = 1.30302$
$n_3 = 2.10253$
$n_4 = 1.43868$
$n_5 = 5.98690$

$\sqrt{A^2-4\cdot B^2\cdot C^2} = 0.45461$

$\sqrt{n_2^2\cdot n_3^2-4\cdot n_1^2} = 1.44821$

$\frac{E\cdot(A\cdot D+2\cdot B\cdot C)+D\cdot E\cdot\sqrt{A^2-4\cdot B^2\cdot C^2}}{2\cdot B\cdot C}-F = 0.00000$

$\frac{2\cdot n_1\cdot n_4+n_2\cdot n_3+\sqrt{n_2^2\cdot n_3^2-4\cdot n_1^2}}{2\cdot n_1\cdot n_4\cdot n_5}-F = 0.00000$



2SMT4R11

Given. $A := .86000$ $B := .76745$ $C := .27917$

$$n_1 := \frac{1}{A} \quad n_2 := \frac{1}{B} \quad n_3 := \frac{1}{C}$$

Descriptions.

$$bA := \sqrt{1 + A^2} \qquad be := \frac{1}{bA}$$

$$ce := \frac{A \cdot be}{bA} \qquad fg := \frac{ce}{B} \qquad D := \frac{C}{fg}$$

$D = 0.433381$

Definitions.

$$D - \frac{B \cdot C \cdot \left(A^2 + 1\right)}{A} = 0$$

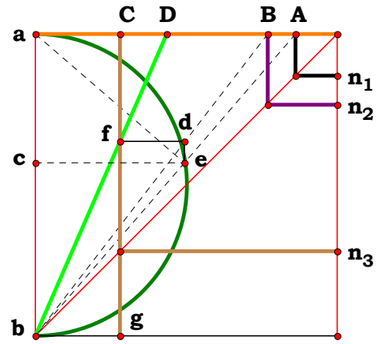
$$D - \frac{\left(n_1{}^2 + 1\right)}{n_1 \cdot n_2 \cdot n_3} = 0$$

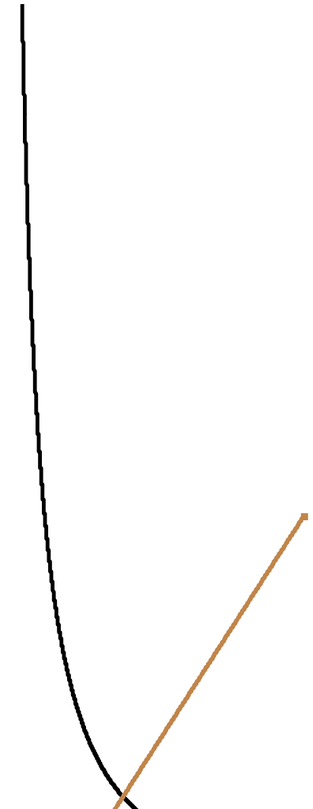
Unit = 1.00000
A = 0.86000
B = 0.76745
C = 0.27917
D = 0.43337

$n_1 = 1.16279$
$n_2 = 1.30302$
$n_3 = 3.58210$

$\frac{B \cdot C \cdot (A^2+1)}{A} - D = 0.00000$

$\frac{n_1{}^2+1}{n_1 \cdot n_2 \cdot n_3} - D = 0.00000$



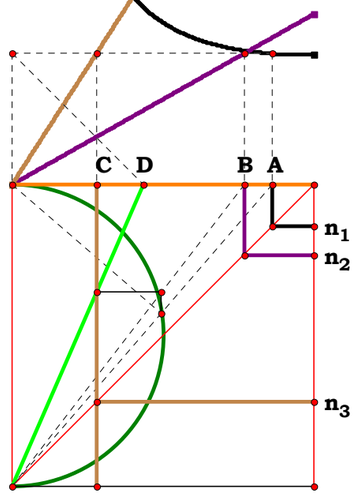


Unit = 1.00000
A = 0.86000
B = 0.76745
C = 0.27917
D = 0.43337

$n_1 = 1.16279$
$n_2 = 1.30302$
$n_3 = 3.58210$

$\frac{B \cdot C \cdot (A^2+1)}{A} - D = 0.00000$

$\frac{n_1{}^2+1}{n_1 \cdot n_2 \cdot n_3} - D = 0.00000$



2SMT5R0

Given. $A := .57995$ $B := .25333$

$C := .82672$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$ $n_3 := \frac{1}{C}$

Descriptions.

$bA := \sqrt{A^2 + 1}$ $bd := \frac{1}{bA}$ $be := \frac{A \cdot bd}{bA}$

$ce := \frac{(C - be)}{C}$ $bk := \frac{B}{1 - ce}$ $ak := \sqrt{bk^2 + 1}$

$af := \frac{1}{ak}$ $D := \frac{bk \cdot af}{ak}$ $D = 0.391425$

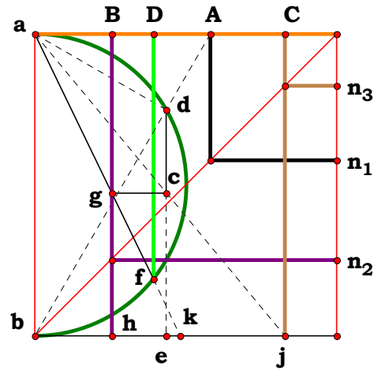
Definitions.

$$D - \frac{A \cdot B \cdot C \cdot \left(A^2 + 1\right)}{A^2 + B^2 \cdot C^2 \cdot \left(A^2 + 1\right)^2} = 0$$

$$D - \frac{n_1 \cdot n_2 \cdot n_3 \cdot \left(n_1{}^2 + 1\right)}{\left(n_1{}^2 + 1\right)^2 + n_1{}^2 \cdot n_2{}^2 \cdot n_3{}^2} = 0$$

Unit = 1.00000
A = 0.57995
B = 0.25333
C = 0.82672
D = 0.39142

n_1 = 1.72428
n_2 = 3.94745
n_3 = 1.20959

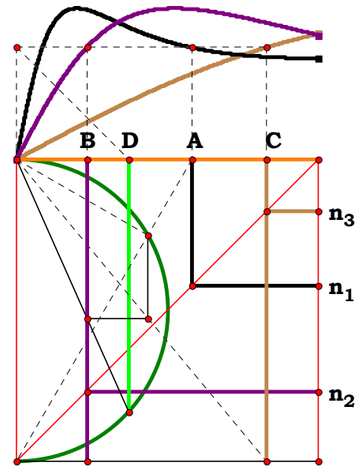


$\frac{A \cdot B \cdot C \cdot (A^2+1)}{A^2+B^2 \cdot C^2 \cdot (A^2+1)^2}$ -D = 0.00000

$\frac{n_1 \cdot n_2 \cdot n_3 \cdot (n_1{}^2+1)}{(n_1{}^2+1)^2+n_1{}^2 \cdot n_2{}^2 \cdot n_3{}^2}$ -D = 0.00000

Unit = 1.00000
A = 0.57995
B = 0.23243
C = 0.82672
D = 0.37019

n_1 = 1.72428
n_2 = 4.30238
n_3 = 1.20959



$\frac{A \cdot B \cdot C \cdot (A^2+1)}{A^2+B^2 \cdot C^2 \cdot (A^2+1)^2}$ -D = 0.00000

$\frac{n_1 \cdot n_2 \cdot n_3 \cdot (n_1{}^2+1)}{(n_1{}^2+1)^2+n_1{}^2 \cdot n_2{}^2 \cdot n_3{}^2}$ -D = 0.00000

2SMT5R1

Given. $A := .36260$ $B := .83015$ $C := .41710$

$$n_1 := \frac{1}{A} \quad n_2 := \frac{1}{B} \quad n_3 := \frac{1}{C}$$

Descriptions.

$$bA := \sqrt{A^2 + 1} \qquad be := \frac{1}{bA} \qquad bf := \frac{A \cdot be}{bA}$$

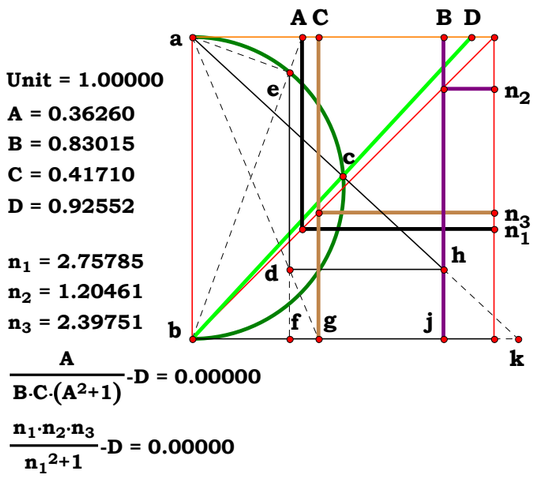
$$df := \frac{(C - bf)}{C} \qquad bk := \frac{B}{1 - df} \qquad D := \frac{1}{bk}$$

$D = 0.925517$

Definitions.

$$D - \frac{A}{B \cdot C \cdot \left(A^2 + 1\right)} = 0$$

$$D - \frac{n_1 \cdot n_2 \cdot n_3}{{n_1}^2 + 1} = 0$$

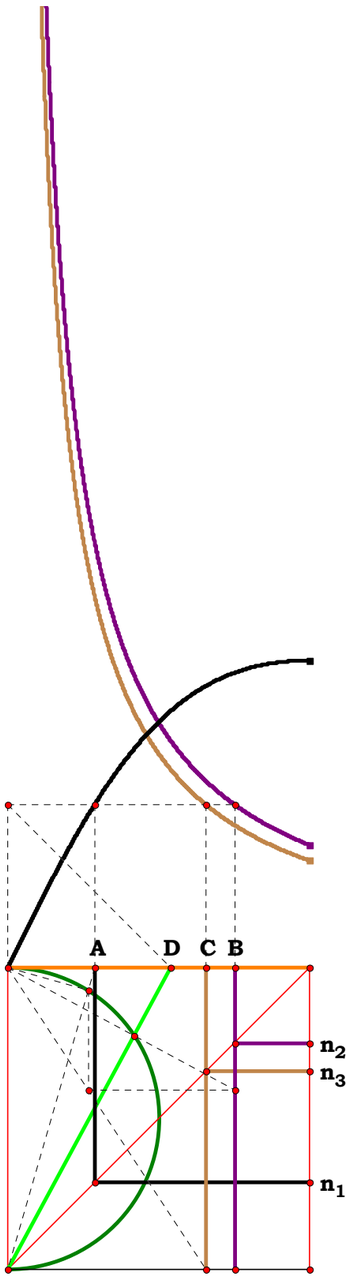


Unit = 1.00000
A = 0.36260
B = 0.83015
C = 0.41710
D = 0.92552

$n_1 = 2.75785$
$n_2 = 1.20461$
$n_3 = 2.39751$

$\frac{A}{B \cdot C \cdot (A^2+1)} - D = 0.00000$

$\frac{n_1 \cdot n_2 \cdot n_3}{{n_1}^2+1} - D = 0.00000$



Unit = 1.00000
A = 0.28736
B = 0.75073
C = 0.65535
D = 0.53953

$n_1 = 3.47991$
$n_2 = 1.33204$
$n_3 = 1.52590$

$\frac{A}{B \cdot C \cdot (A^2+1)} - D = 0.00000$

$\frac{n_1 \cdot n_2 \cdot n_3}{{n_1}^2+1} - D = 0.00000$

2SMT5R2

Given. $A := .57577$ $B := .90120$ $C := .74731$ $D := .82445$

$$n_1 := \frac{1}{A} \quad n_2 := \frac{1}{B} \quad n_3 := \frac{1}{C} \quad n_4 := \frac{1}{D}$$

Descriptions.

$$bA := \sqrt{1 + A^2} \qquad be := \frac{1}{bA} \qquad bf := A \cdot \frac{be}{bA}$$

$$gC := \frac{bf}{B} \qquad bk := \frac{C}{gC} \qquad ah := \frac{bk \cdot D}{bk + D}$$

$$E := \frac{1}{ah} \qquad E = 1.855$$

Definitions.

$$E - \frac{B \cdot C \cdot \left(A^2 + 1\right) + A \cdot D}{B \cdot C \cdot D \cdot \left(A^2 + 1\right)} = 0$$

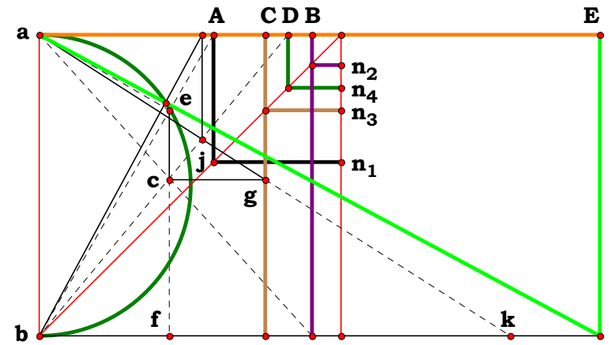
$$E - \frac{{n_1}^2 \cdot n_4 + n_2 \cdot n_3 \cdot n_1 + n_4}{{n_1}^2 + 1} = 0$$

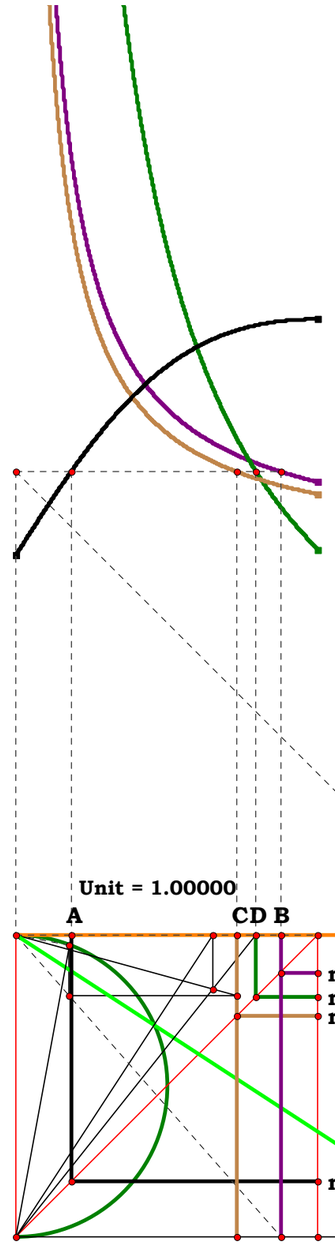
Unit = 1.00000
A = 0.57577
B = 0.90120
C = 0.74731
D = 0.82445
E = 1.85501

n_1 = 1.73680
n_2 = 1.10963
n_3 = 1.33814
n_4 = 1.21293

$\frac{B \cdot C \cdot (A^2+1) + A \cdot D}{B \cdot C \cdot D \cdot (A^2+1)} - E = 0.00000$

$\frac{n_1^2 \cdot n_4 + n_1 \cdot n_2 \cdot n_3 + n_4}{n_1^2 + 1} - E = 0.00000$



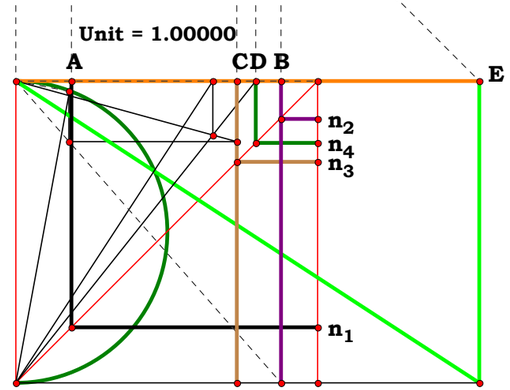


A = 0.18287
B = 0.87612
C = 0.73059
D = 0.79540
E = 1.53368

n_1 = 5.46842
n_2 = 1.14139
n_3 = 1.36876
n_4 = 1.25723

$\frac{B \cdot C \cdot (A^2+1) + A \cdot D}{B \cdot C \cdot D \cdot (A^2+1)} - E = 0.00000$

$\frac{n_1^2 \cdot n_4 + n_1 \cdot n_2 \cdot n_3 + n_4}{n_1^2 + 1} - E = 0.00000$



2SMT5R3

Given. $A := .40022$ $B := .67549$

$C := .25827$ $D := .79122$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$ $n_3 := \frac{1}{C}$ $n_4 := \frac{1}{D}$

Descriptions.

$bA := \sqrt{1 + A^2}$ $bd := \frac{1}{bA}$ $be := A \cdot \frac{bd}{bA}$

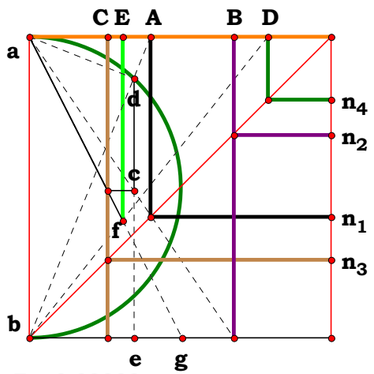
$fC := \frac{be}{B}$ $bg := \frac{C}{fC}$ $E := \frac{bg \cdot D}{bg + D}$

$E = 0.308526$

Definitions.

$$E - \frac{B \cdot C \cdot D \cdot \left(A^2 + 1\right)}{B \cdot C \cdot \left(A^2 + 1\right) + A \cdot D} = 0$$

$$E - \frac{{n_1}^2 + 1}{{n_1}^2 \cdot n_4 + n_1 \cdot n_2 \cdot n_3 + n_4} = 0$$



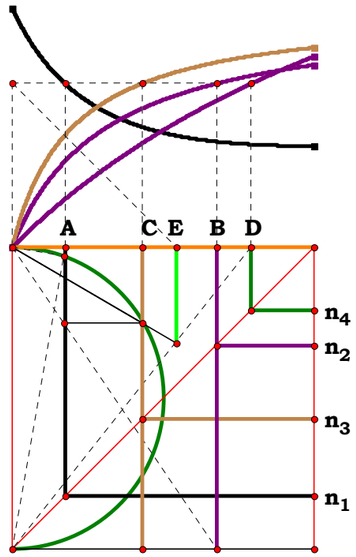
Unit = 1.00000

A = 0.40022
B = 0.67549
C = 0.25827
D = 0.79122
E = 0.30852

n_1 = 2.49863
n_2 = 1.48040
n_3 = 3.87197
n_4 = 1.26387

$\frac{B \cdot C \cdot D \cdot (A^2+1)}{B \cdot C \cdot (A^2+1) + A \cdot D}$ -E = 0.00000

$\frac{{n_1}^2+1}{{n_1}^2 \cdot n_4 + n_1 \cdot n_2 \cdot n_3 + n_4}$ -E = 0.00000



Unit = 1.00000

A = 0.17451
B = 0.67549
C = 0.42964
D = 0.79122
E = 0.54130

n_1 = 5.73038
n_2 = 1.48040
n_3 = 2.32753
n_4 = 1.26387

$\frac{B \cdot C \cdot D \cdot (A^2+1)}{B \cdot C \cdot (A^2+1) + A \cdot D}$ -E = 0.00000

$\frac{{n_1}^2+1}{{n_1}^2 \cdot n_4 + n_1 \cdot n_2 \cdot n_3 + n_4}$ -E = 0.00000

2SMT5R4

Given. $A := .31244$ $B := .43724$ $C := .82254$

$$n_1 := \frac{1}{A} \quad n_2 := \frac{1}{B} \quad n_3 := \frac{1}{C}$$

Descriptions.

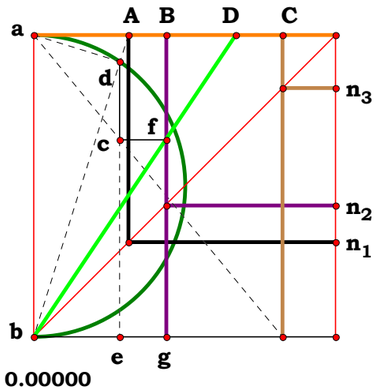
$$bA := \sqrt{A^2 + 1} \quad bd := \frac{1}{bA} \quad be := \frac{A \cdot bd}{bA}$$

$$ce := \frac{C - be}{C} \quad D := \frac{B}{ce} \quad D = 0.668629$$

Definitions.

$$D - \frac{B \cdot C \cdot \left(A^2 + 1\right)}{A^2 \cdot C + C - A} = 0$$

$$D - \frac{{n_1}^2 + 1}{n_2 \cdot \left({n_1}^2 - n_1 \cdot n_3 + 1\right)} = 0$$

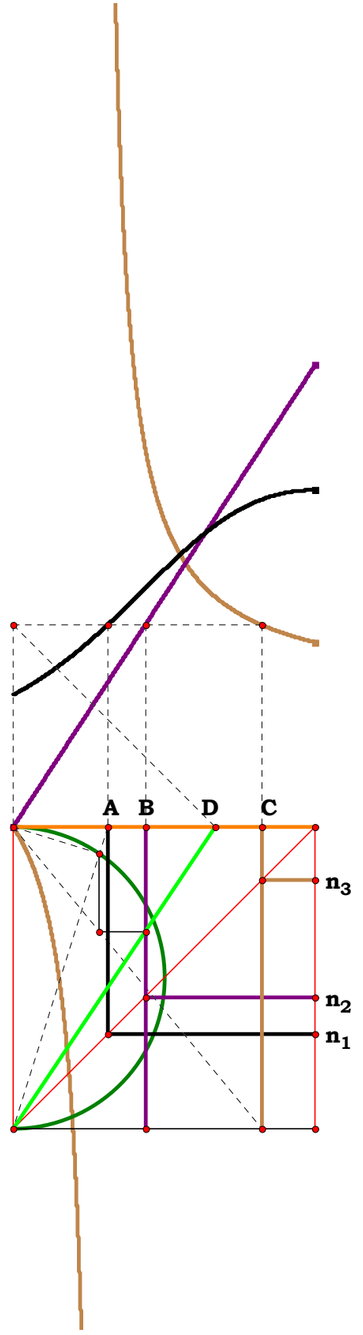


Unit = 1.00000
A = 0.31244
B = 0.43724
C = 0.82254
D = 0.66863

n_1 = 3.20058
n_2 = 2.28707
n_3 = 1.21574

$\frac{B \cdot C \cdot (A^2+1)}{(A^2 \cdot C+C)-A} - D = 0.00000$

$\frac{{n_1}^2+1}{n_2 \cdot (({n_1}^2 - n_1 \cdot n_3)+1)} - D = 0.00000$



Unit = 1.00000
A = 0.31244
B = 0.43724
C = 0.82254
D = 0.66863

n_1 = 3.20058
n_2 = 2.28707
n_3 = 1.21574

$\frac{B \cdot C \cdot (A^2+1)}{(A^2 \cdot C+C)-A} - D = 0.00000$

$\frac{{n_1}^2+1}{n_2 \cdot (({n_1}^2 - n_1 \cdot n_3)+1)} - D = 0.00000$

2SMT5R5

Given. $A := .83910$ $B := .54592$

$C := .68879$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$ $n_3 := \frac{1}{C}$

Descriptions.

$bA := \sqrt{A^2 + 1}$ $bd := \frac{1}{bA}$ $be := \frac{A \cdot bd}{bA}$

$ce := \frac{(C - be)}{C}$ $D := \frac{B}{1 - ce}$

$D = 0.76365$

Definitions.

$$D - \frac{B \cdot C \cdot \left(A^2 + 1\right)}{A} = 0$$

$$D - \frac{{n_1}^2 + 1}{n_1 \cdot n_2 \cdot n_3} = 0$$

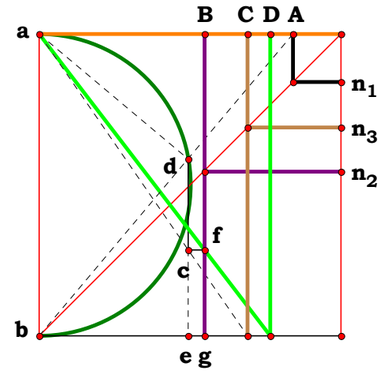
Unit = 1.00000

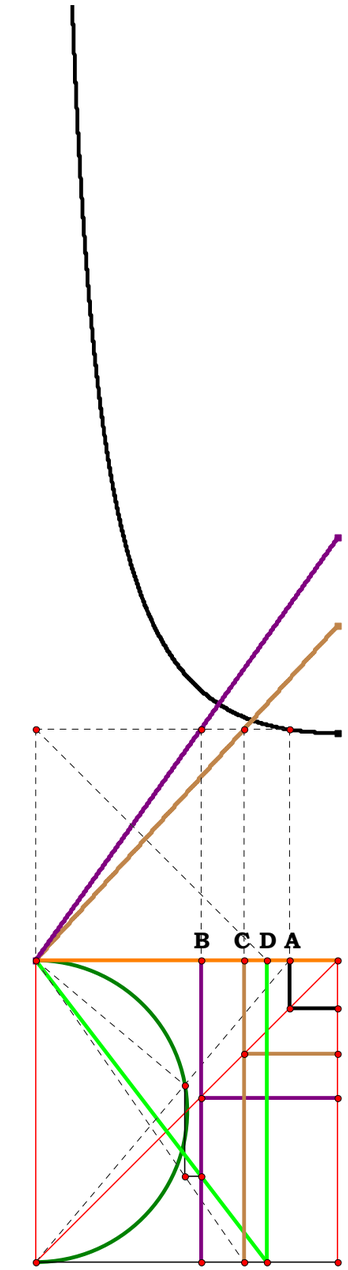
A = 0.83910
B = 0.54592
C = 0.68879
D = 0.76364

n_1 = 1.19175
n_2 = 1.83178
n_3 = 1.45182

$\frac{B \cdot C \cdot (A^2+1)}{A}$ -D = 0.00000

$\frac{{n_1}^2+1}{n_1 \cdot n_2 \cdot n_3}$ -D = 0.00000





Unit = 1.00000

A = 0.83910
B = 0.54592
C = 0.68879
D = 0.76364

n_1 = 1.19175
n_2 = 1.83178
n_3 = 1.45182

$\frac{B \cdot C \cdot (A^2+1)}{A}$ -D = 0.00000

$\frac{{n_1}^2+1}{n_1 \cdot n_2 \cdot n_3}$ -D = 0.00000

2SMT6R0

Given. $A := .83910$ $B := .69639$ $C := .59683$

$$n_1 := \frac{1}{A} \quad n_2 := \frac{1}{B} \quad n_3 := \frac{1}{C}$$

Descriptions.

$$gh := \frac{C}{C + A} \qquad ce := B \cdot gh \qquad de := \frac{1}{2}$$

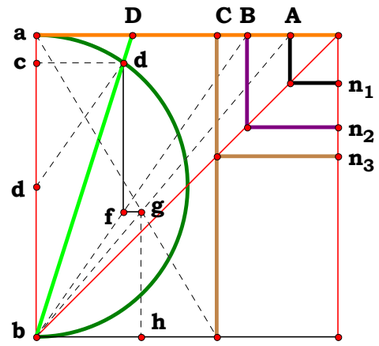
$$cd := \sqrt{de^2 - ce^2} \qquad bc := de + cd \qquad D := \frac{ce}{bc}$$

$D = 0.31888$

Definitions.

$$D - \frac{2 \cdot B \cdot C \cdot (A + C)}{\left[A + C + \sqrt{A^2 + C \cdot \left(2 \cdot A - 4 \cdot B^2 \cdot C + C\right)}\right] \cdot (A + C)} = 0$$

$$D - \frac{2 \cdot n_1}{\sqrt{\left[n_2 \cdot \left(n_1 + n_3\right) - 2 \cdot n_1\right] \cdot \left[n_2 \cdot \left(n_1 + n_3\right) + 2 \cdot n_1\right]} + n_2 \cdot \left(n_1 + n_3\right)} = 0$$



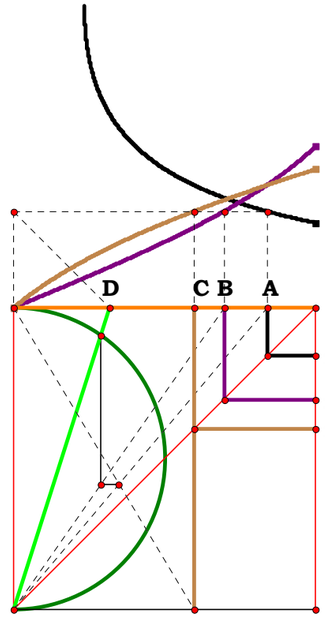
Unit = 1.00000

A = 0.83910
B = 0.69639
C = 0.59683
D = 0.31888

n_1 = 1.19175
n_2 = 1.43598
n_3 = 1.67551

$$\frac{2 \cdot B \cdot C \cdot (A+C)}{(A+C) \cdot \left(A+C+\sqrt{A^2+C \cdot \left((2 \cdot A-4 \cdot B^2 \cdot C)+C\right)}\right)} - D = 0.00000$$

$$\frac{2 \cdot n_1}{n_2 \cdot (n_1+n_3)+\sqrt{(n_2 \cdot (n_1+n_3)-2 \cdot n_1) \cdot (n_2 \cdot (n_1+n_3)+2 \cdot n_1)}} - D = 0.00000$$



Unit = 1.00000

A = 0.83910
B = 0.69639
C = 0.59683
D = 0.31888

n_1 = 1.19175
n_2 = 1.43598
n_3 = 1.67551

$$\frac{2 \cdot B \cdot C \cdot (A+C)}{(A+C) \cdot \left(A+C+\sqrt{A^2+C \cdot \left((2 \cdot A-4 \cdot B^2 \cdot C)+C\right)}\right)} - D = 0.00000$$

$$\frac{2 \cdot n_1}{n_2 \cdot (n_1+n_3)+\sqrt{(n_2 \cdot (n_1+n_3)-2 \cdot n_1) \cdot (n_2 \cdot (n_1+n_3)+2 \cdot n_1)}} - D = 0.00000$$

2SMT6R1

Given. $A := .86000$

$B := .77581$ $C := .30006$

$D := .68254$ $E := .60591$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$ $n_3 := \frac{1}{C}$

$n_4 := \frac{1}{D}$ $n_5 := \frac{1}{E}$

Unit = 1.00000

A = 0.86000

B = 0.77581

C = 0.30006

D = 0.68254

E = 0.60591

F = 0.42491

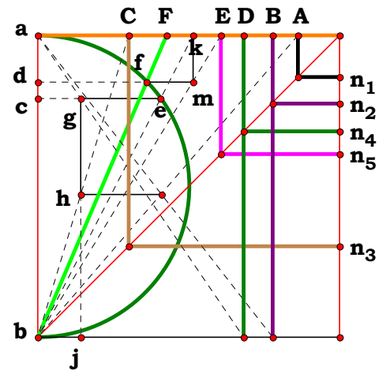
n_1 = 1.16279

n_2 = 1.28898

n_3 = 3.33261

n_4 = 1.46511

n_5 = 1.65040



$$\frac{\sqrt{\left(E\cdot\sqrt{B\cdot C\cdot((A\cdot D-B\cdot C)+B\cdot D)}-B\cdot C\right)\cdot((A\cdot D-B\cdot C)+B\cdot D)}}{\sqrt{(B^2\cdot C\cdot D-B^2\cdot C^2)+A\cdot B\cdot C\cdot D}}-F = 0.00000$$

$$\frac{\sqrt{n_1\cdot n_4}\cdot\sqrt{n_2\cdot n_3\cdot\left(\sqrt{(n_1\cdot n_3-n_1\cdot n_4)+n_2\cdot n_3}-n_5\cdot\sqrt{n_1\cdot n_4}\right)}}{\sqrt{n_1\cdot n_2\cdot n_3\cdot n_4\cdot n_5\cdot\sqrt{n_1\cdot n_4}}}-F = 0.00000$$

Descriptions.

$hj := \frac{B}{A+B}$ $bj := C\cdot hj$ $bc := 1-\frac{bj}{D}$

$ce := \sqrt{bc\cdot(1-bc)}$ $ak := \frac{ce}{bc}$ $ad := 1-\frac{ak}{E}$

$df := \sqrt{ad\cdot(1-ad)}$ $F := \frac{df}{1-ad}$

$F = 0.424907$

Definitions.

$$F-\frac{\sqrt{\left[E\cdot\sqrt{B\cdot C\cdot(A\cdot D-B\cdot C+B\cdot D)}-B\cdot C\right]\cdot(A\cdot D-B\cdot C+B\cdot D)}}{\sqrt{D\cdot B^2\cdot C-B^2\cdot C^2+A\cdot D\cdot B\cdot C}}=0$$

$$F-\frac{\sqrt{n_1\cdot n_4}\cdot\sqrt{n_2\cdot n_3\cdot\left(\sqrt{n_1\cdot n_3-n_1\cdot n_4+n_2\cdot n_3}-n_5\cdot\sqrt{n_1\cdot n_4}\right)}}{\sqrt{n_1\cdot n_2\cdot n_3\cdot n_4\cdot n_5\cdot\sqrt{n_1\cdot n_4}}}=0$$

2SMT6R2

Given. $A := .81402$ $B := .65041$

$C := .42128$ $D := .56969$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$ $n_3 := \frac{1}{C}$ $n_4 := \frac{1}{D}$

Descriptions.

$bd := \frac{B}{A+B}$ $df := \sqrt{bd \cdot (1 - bd)}$

$ao := \frac{df}{bd}$ $bj := \frac{ao \cdot C}{ao + C}$ $bc := \frac{bj}{D}$

$ce := \sqrt{bc \cdot (1 - bc)}$ $E := \frac{ce}{bc}$

$E = 0.928178$

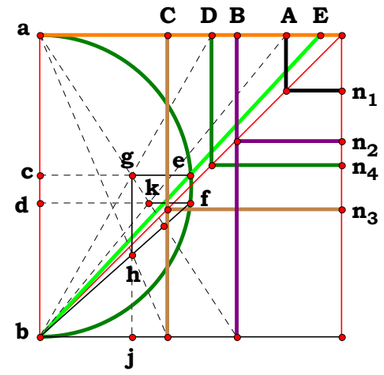
Definitions.

$$E - \frac{\sqrt{B} \cdot \sqrt{C^2 \cdot D \cdot \sqrt{A \cdot B} - A \cdot C \cdot (C - D)}}{C \cdot \sqrt{A \cdot B}} = 0$$

$$E - \frac{(n_1 \cdot n_2)^{\frac{1}{4}} \cdot \sqrt{n_1 + \sqrt{n_1 \cdot n_2} \cdot (n_3 - n_4)}}{\sqrt{n_2} \cdot \sqrt{n_1 \cdot n_4}} = 0$$

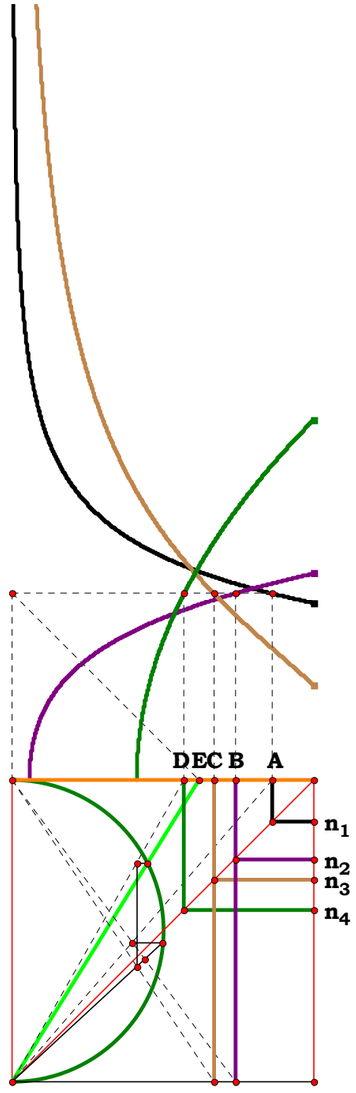
Unit = 1.00000
A = 0.81402
B = 0.65041
C = 0.42128
D = 0.56969
E = 0.92817

$n_1 = 1.22847$
$n_2 = 1.53749$
$n_3 = 2.37372$
$n_4 = 1.75535$



$$\frac{\sqrt{B} \cdot \sqrt{C^2 \cdot D \cdot \sqrt{A \cdot B} - A \cdot C \cdot (C - D)}}{C \cdot \sqrt{A \cdot B}} - E = 0.00000$$

$$\frac{(n_1 \cdot n_2)^{\frac{1}{4}} \cdot \sqrt{n_1 + \sqrt{n_1 \cdot n_2} \cdot (n_3 - n_4)}}{\sqrt{n_1 \cdot n_2 \cdot n_4}} - E = 0.00000$$



Unit = 1.00000
A = 0.86000
B = 0.73819
C = 0.66789
D = 0.56969
E = 0.61706

$n_1 = 1.16279$
$n_2 = 1.35467$
$n_3 = 1.49725$
$n_4 = 1.75535$

$$\frac{\sqrt{B} \cdot \sqrt{C^2 \cdot D \cdot \sqrt{A \cdot B} - A \cdot C \cdot (C - D)}}{C \cdot \sqrt{A \cdot B}} - E = 0.00000$$

$$\frac{(n_1 \cdot n_2)^{\frac{1}{4}} \cdot \sqrt{n_1 + \sqrt{n_1 \cdot n_2} \cdot (n_3 - n_4)}}{\sqrt{n_1 \cdot n_2 \cdot n_4}} - E = 0.00000$$

2SMT6R3

Given. $A := .58831$ $B := .27005$

$C := .44218$ $D := .36488$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$ $n_3 := \frac{1}{C}$ $n_4 := \frac{1}{D}$

Descriptions.

$fg := \frac{B}{A+B}$ $bg := C \cdot fg$ $bc := 1 - \frac{bg}{D}$

$cd := \sqrt{bc \cdot (1 - bc)}$ $E := \frac{cd}{bc}$

$E = 0.78498$

Definitions.

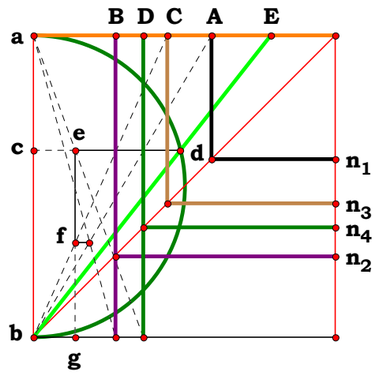
$$E - \frac{\sqrt{B \cdot C \cdot (A \cdot D - B \cdot C + B \cdot D)}}{A \cdot D - B \cdot C + B \cdot D} = 0$$

$$E - \frac{n_1 \cdot n_4}{\sqrt{n_1 \cdot n_4} \cdot \sqrt{n_1 \cdot n_3 - n_1 \cdot n_4 + n_2 \cdot n_3}} = 0$$

Unit = 1.00000

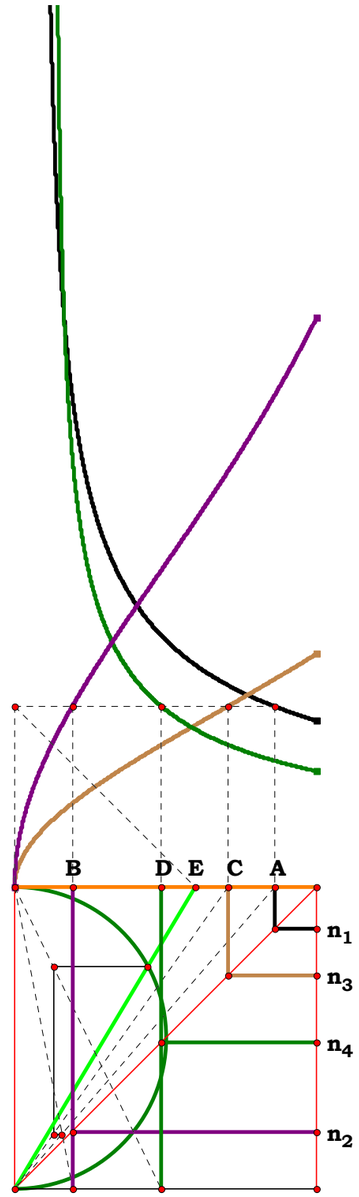
A = 0.58831
B = 0.27005
C = 0.44218
D = 0.36488
E = 0.78498

n_1 = 1.69978
n_2 = 3.70305
n_3 = 2.26153
n_4 = 2.74066



$\frac{\sqrt{B \cdot C \cdot ((A \cdot D - B \cdot C) + B \cdot D)}}{(A \cdot D - B \cdot C) + B \cdot D} - E = 0.00000$

$\frac{n_1 \cdot n_4}{\sqrt{n_1 \cdot n_4} \cdot \sqrt{(n_1 \cdot n_3 - n_1 \cdot n_4) + n_2 \cdot n_3}} - E = 0.00000$



Unit = 1.00000

A = 0.86000
B = 0.19063
C = 0.70551
D = 0.48609
E = 0.59791

n_1 = 1.16279
n_2 = 5.24574
n_3 = 1.41742
n_4 = 2.05723

$\frac{\sqrt{B \cdot C \cdot ((A \cdot D - B \cdot C) + B \cdot D)}}{(A \cdot D - B \cdot C) + B \cdot D} - E = 0.00000$

$\frac{n_1 \cdot n_4}{\sqrt{n_1 \cdot n_4} \cdot \sqrt{(n_1 \cdot n_3 - n_1 \cdot n_4) + n_2 \cdot n_3}} - E = 0.00000$

2SMT6R4

Given. $A := .76804$

$B := .24079$ $C := .53414$

$D := .38159$ $E := .88178$

$$n_1 := \frac{1}{A} \quad n_2 := \frac{1}{B} \quad n_3 := \frac{1}{C} \quad n_4 := \frac{1}{D} \quad n_5 := \frac{1}{E}$$

Descriptions.

$$de := \frac{B}{A+B} \qquad be := C \cdot de \qquad gh := \frac{be}{D}$$

$$ag := E \cdot (1 - gh) \qquad bh := \sqrt{1 + ag^2} \qquad bf := \frac{1}{bh}$$

$$F := \frac{ag \cdot bf}{bh}$$

$F = 0.436635$

Definitions.

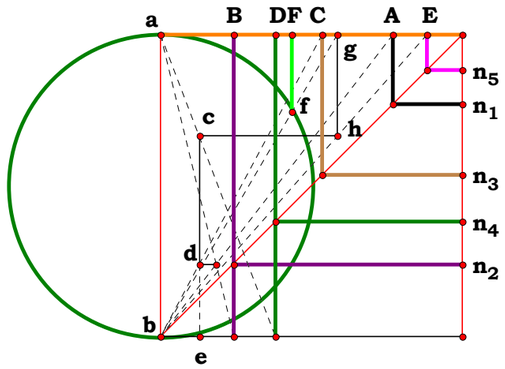
$$F - \frac{D \cdot E \cdot (A+B) \cdot (A \cdot D - B \cdot C + B \cdot D)}{E^2 \cdot (A \cdot D - B \cdot C + B \cdot D)^2 + D^2 \cdot (A+B)^2} = 0$$

$$F - \frac{n_3 \cdot n_5 \cdot (n_1 + n_2) \cdot (n_1 \cdot n_3 - n_1 \cdot n_4 + n_2 \cdot n_3)}{{n_3}^2 \cdot {n_5}^2 \cdot (n_1 + n_2)^2 + (n_1 \cdot n_3 - n_1 \cdot n_4 + n_2 \cdot n_3)^2} = 0$$

Unit = 1.00000

A = 0.76804
B = 0.24079
C = 0.53414
D = 0.38159
E = 0.88178
F = 0.43664

n_1 = 1.30201
n_2 = 4.15302
n_3 = 1.87218
n_4 = 2.62058
n_5 = 1.13407



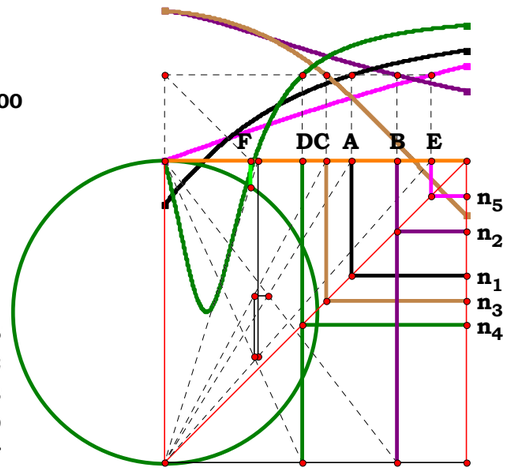
$$\frac{D \cdot E \cdot (A+B) \cdot ((A \cdot D - B \cdot C) + B \cdot D)}{E^2 \cdot ((A \cdot D - B \cdot C) + B \cdot D)^2 + D^2 \cdot (A+B)^2} - F = 0.00000$$

$$\frac{n_3 \cdot n_5 \cdot (n_1 + n_2) \cdot ((n_1 \cdot n_3 - n_1 \cdot n_4) + n_2 \cdot n_3)}{{n_3}^2 \cdot {n_5}^2 \cdot (n_1 + n_2)^2 + ((n_1 \cdot n_3 - n_1 \cdot n_4) + n_2 \cdot n_3)^2} - F = 0.00000$$

Unit = 1.00000

A = 0.61757
B = 0.76745
C = 0.53414
D = 0.45683
E = 0.88178
F = 0.28320

n_1 = 1.61925
n_2 = 1.30302
n_3 = 1.87218
n_4 = 2.18899
n_5 = 1.13407



$$\frac{D \cdot E \cdot (A+B) \cdot ((A \cdot D - B \cdot C) + B \cdot D)}{E^2 \cdot ((A \cdot D - B \cdot C) + B \cdot D)^2 + D^2 \cdot (A+B)^2} - F = 0.00000$$

$$\frac{n_3 \cdot n_5 \cdot (n_1 + n_2) \cdot ((n_1 \cdot n_3 - n_1 \cdot n_4) + n_2 \cdot n_3)}{{n_3}^2 \cdot {n_5}^2 \cdot (n_1 + n_2)^2 + ((n_1 \cdot n_3 - n_1 \cdot n_4) + n_2 \cdot n_3)^2} - F = 0.00000$$

2SMT6R5

Given. $A := .92688$ $B := .65877$ $C := .48398$ $D := .78286$ $E := .85252$ $F := .35931$

$$n_1 := \frac{1}{A} \quad n_2 := \frac{1}{B} \quad n_3 := \frac{1}{C} \quad n_4 := \frac{1}{D} \quad n_5 := \frac{1}{E} \quad n_6 := \frac{1}{F}$$

Descriptions.

$$fg := \frac{B}{A+B} \qquad bg := C \cdot fg \qquad ac := \frac{bg}{D}$$

$$cd := \sqrt{ac \cdot (1-ac)} \qquad ah := \frac{cd}{1-ac} \qquad hj := 1 - \frac{ah}{E}$$

$$G := F \cdot (1-hj) \qquad G = 0.247776$$

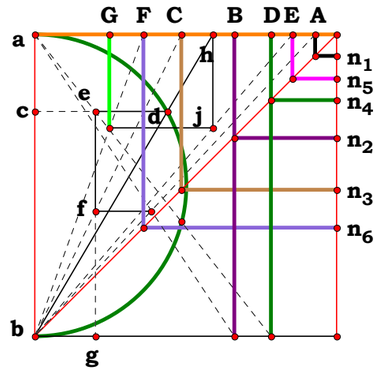
Definitions.

$$G - \frac{F \cdot \sqrt{B \cdot C \cdot (A \cdot D - B \cdot C + B \cdot D)}}{E \cdot (A \cdot D - B \cdot C + B \cdot D)} = 0$$

$$G - \frac{n_1 \cdot n_4 \cdot n_5}{n_6 \cdot \sqrt{n_1 \cdot n_4} \cdot \sqrt{n_1 \cdot n_3 - n_1 \cdot n_4 + n_2 \cdot n_3}} = 0$$

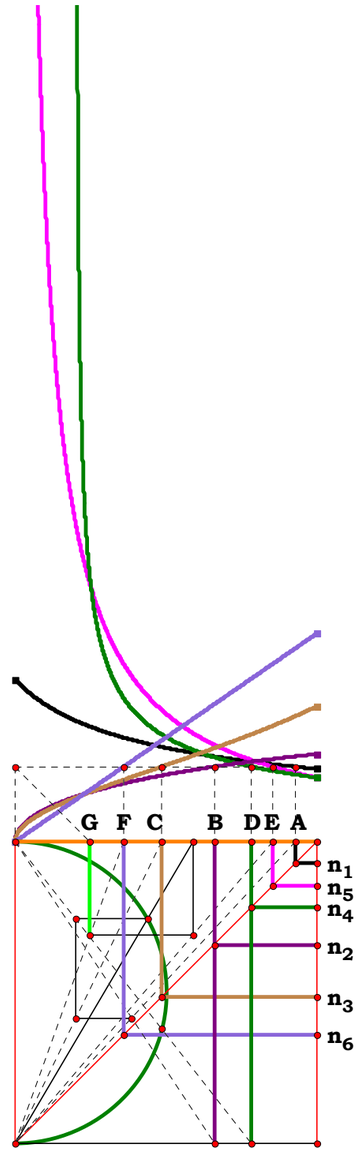
Unit = 1.00000
A = 0.92688
B = 0.65877
C = 0.48398
D = 0.78286
E = 0.85252
F = 0.35931
G = 0.24778

n_1 = 1.07889
n_2 = 1.51798
n_3 = 2.06621
n_4 = 1.27737
n_5 = 1.17299
n_6 = 2.78309



$$\frac{F \cdot \sqrt{B \cdot C \cdot ((A \cdot D - B \cdot C) + B \cdot D)}}{E \cdot ((A \cdot D - B \cdot C) + B \cdot D)} - G = 0.00000$$

$$\frac{n_1 \cdot n_4 \cdot n_5}{n_6 \cdot \sqrt{n_1 \cdot n_4 \cdot ((n_1 \cdot n_3 - n_1 \cdot n_4) + n_2 \cdot n_3)}} - G = 0.00000$$



Unit = 1.00000
A = 0.92688
B = 0.65877
C = 0.48398
D = 0.78286
E = 0.85252
F = 0.35931
G = 0.24778

n_1 = 1.07889
n_2 = 1.51798
n_3 = 2.06621
n_4 = 1.27737
n_5 = 1.17299
n_6 = 2.78309

$$\frac{F \cdot \sqrt{B \cdot C \cdot ((A \cdot D - B \cdot C) + B \cdot D)}}{E \cdot ((A \cdot D - B \cdot C) + B \cdot D)} - G = 0.00000$$

$$\frac{n_1 \cdot n_4 \cdot n_5}{n_6 \cdot \sqrt{n_1 \cdot n_4 \cdot ((n_1 \cdot n_3 - n_1 \cdot n_4) + n_2 \cdot n_3)}} - G = 0.00000$$

2SMT6R6

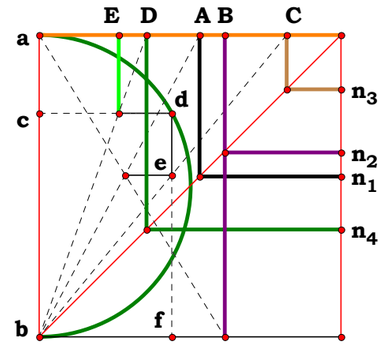
Given. $A := .52979$ $B := .61279$ $C := .81836$ $D := .35652$

$$n_1 := \frac{1}{A} \quad n_2 := \frac{1}{B} \quad n_3 := \frac{1}{C} \quad n_4 := \frac{1}{D}$$

Unit = 1.00000

A = 0.52979
B = 0.61279
C = 0.81836
D = 0.35652
E = 0.26364

n_1 = 1.88753
n_2 = 1.63187
n_3 = 1.22195
n_4 = 2.80493



$$\frac{D\cdot\left(A+B+\sqrt{((A^2+2\cdot A\cdot B)-4\cdot B^2\cdot C^2)+B^2}\right)}{2\cdot(A+B)}-E = 0.00000$$

$$\frac{n_3\cdot(n_1+n_2)+\sqrt{(n_3\cdot(n_1+n_2)-2\cdot n_1)\cdot(2\cdot n_1+n_3\cdot(n_1+n_2))}}{2\cdot n_3\cdot n_4\cdot(n_1+n_2)}-E = 0.00000$$

Descriptions.

$$ef := \frac{B}{A+B} \qquad cd := C\cdot ef \qquad ac := \frac{1}{2}-\sqrt{\left(\frac{1}{2}\right)^2-cd^2}$$

$$E := D\cdot(1-ac) \qquad E = 0.263649$$

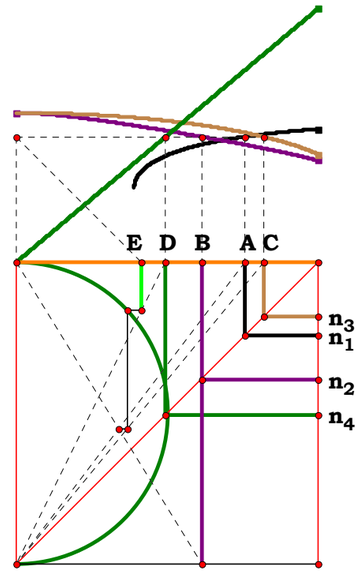
Definitions.

$$E-\frac{D\cdot\left(A+B+\sqrt{A^2+2\cdot A\cdot B-4\cdot B^2\cdot C^2+B^2}\right)}{2\cdot(A+B)} = 0$$

$$E-\frac{\sqrt{\left[n_3\cdot(n_1+n_2)-2\cdot n_1\right]\cdot\left[n_3\cdot(n_1+n_2)+2\cdot n_1\right]}+n_3\cdot(n_1+n_2)}{2\cdot n_4\cdot(n_1+n_2)\cdot n_3} = 0$$

A = 0.75551
B = 0.61279
C = 0.81836
D = 0.49445
E = 0.41539

n_1 = 1.32362
n_2 = 1.63187
n_3 = 1.22195
n_4 = 2.02245



Unit = 1.00000

$$\frac{D\cdot\left(A+B+\sqrt{((A^2+2\cdot A\cdot B)-4\cdot B^2\cdot C^2)+B^2}\right)}{2\cdot(A+B)}-E = 0.00000$$

$$\frac{n_3\cdot(n_1+n_2)+\sqrt{(n_3\cdot(n_1+n_2)-2\cdot n_1)\cdot(2\cdot n_1+n_3\cdot(n_1+n_2))}}{2\cdot n_3\cdot n_4\cdot(n_1+n_2)}-E = 0.00000$$

2SMT6R7

Given. $A := .29572$ $B := .80925$ $C := .67207$ $D := .34816$

$$n_1 := \frac{1}{A} \quad n_2 := \frac{1}{B} \quad n_3 := \frac{1}{C} \quad n_4 := \frac{1}{D}$$

Descriptions.

$$ef := \frac{B}{A+B} \qquad cd := ef \cdot C \qquad ac := \frac{1}{2} - \sqrt{\left(\frac{1}{2}\right)^2 - cd^2}$$

$$E := \frac{D}{1-ac} \qquad E = 0.592169$$

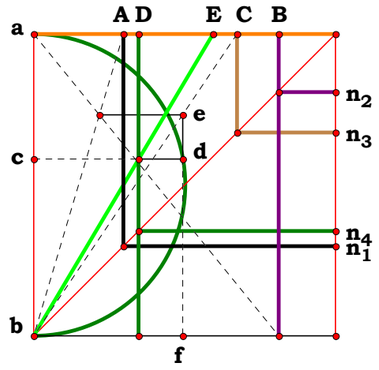
Definitions.

$$E - \frac{2 \cdot D \cdot (A+B)}{A+B+\sqrt{A^2+2 \cdot A \cdot B-4 \cdot B^2 \cdot C^2+B^2}} = 0$$

$$E - \frac{2 \cdot (n_1+n_2) \cdot n_3}{n_4 \cdot \left[n_3 \cdot (n_1+n_2) + \sqrt{(n_1 \cdot n_3+n_2 \cdot n_3-2 \cdot n_1) \cdot (n_1 \cdot n_3+n_2 \cdot n_3+2 \cdot n_1)}\right]} = 0$$

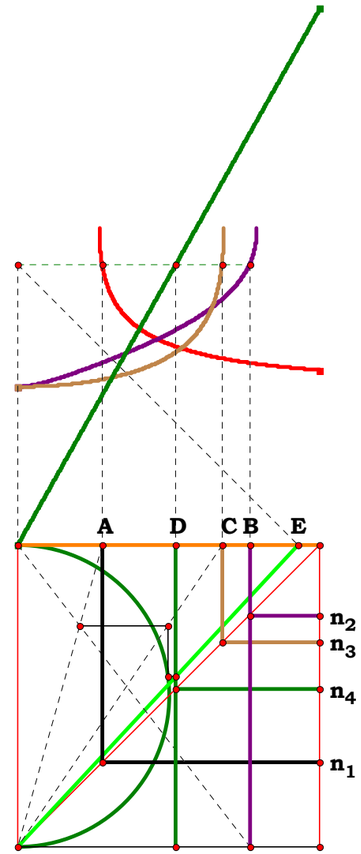
Unit = 1.00000
A = 0.29572
B = 0.80925
C = 0.67207
D = 0.34816
E = 0.59215

n_1 = 3.38154
n_2 = 1.23572
n_3 = 1.48794
n_4 = 2.87228



$$\frac{2 \cdot D \cdot (A+B)}{A+B+\sqrt{((A^2+2 \cdot A \cdot B)-4 \cdot B^2 \cdot C^2)+B^2}} - E = 0.00000$$

$$\frac{2 \cdot n_3 \cdot (n_1+n_2)}{n_4 \cdot \left(n_3 \cdot (n_1+n_2)+\sqrt{((n_1 \cdot n_3+n_2 \cdot n_3)-2 \cdot n_1) \cdot (n_1 \cdot n_3+n_2 \cdot n_3+2 \cdot n_1)}\right)} - E = 0.00000$$



Unit = 1.00000
A = 0.27900
B = 0.76745
C = 0.67625
D = 0.52371
E = 0.92935

n_1 = 3.58417
n_2 = 1.30302
n_3 = 1.47874
n_4 = 1.90946

$$\frac{2 \cdot D \cdot (A+B)}{A+B+\sqrt{((A^2+2 \cdot A \cdot B)-4 \cdot B^2 \cdot C^2)+B^2}} - E = 0.00000$$

$$\frac{2 \cdot n_3 \cdot (n_1+n_2)}{n_4 \cdot \left(n_3 \cdot (n_1+n_2)+\sqrt{((n_1 \cdot n_3+n_2 \cdot n_3)-2 \cdot n_1) \cdot (n_1 \cdot n_3+n_2 \cdot n_3+2 \cdot n_1)}\right)} - E = 0.00000$$

2SMT6R8

Given. $A := .65519$ $B := .16137$

$C := .42546$ $D := .90407$

$E := .58919$ $F := .27154$

$$n_1 := \frac{1}{A} \quad n_2 := \frac{1}{B} \quad n_3 := \frac{1}{C}$$

$$n_4 := \frac{1}{D} \quad n_4 := \frac{1}{E} \quad n_6 := \frac{1}{F}$$

Unit = 1.00000

A = 0.65519

B = 0.16137

C = 0.42546

D = 0.90407

E = 0.58919

F = 0.27154

G = 0.49962

n_1 = 1.52628

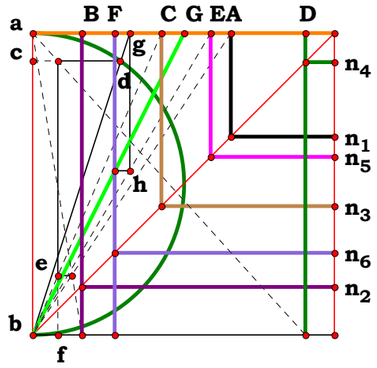
n_2 = 6.19686

n_3 = 2.35040

n_4 = 1.10610

n_5 = 1.69723

n_6 = 3.68275



$$\frac{E\cdot F\cdot((A\cdot D-B\cdot C)+B\cdot D)}{\sqrt{B\cdot C\cdot((A\cdot D-B\cdot C)+B\cdot D)}}-G = 0.00000$$

$$\frac{\sqrt{n_1\cdot n_4\cdot(n_1\cdot(n_3-n_4)+n_2\cdot n_3)}}{n_1\cdot n_4\cdot n_5\cdot n_6}-G = 0.00000$$

Descriptions.

$$ef := \frac{B}{A+B} \qquad bf := C\cdot ef \qquad ac := \frac{bf}{D}$$

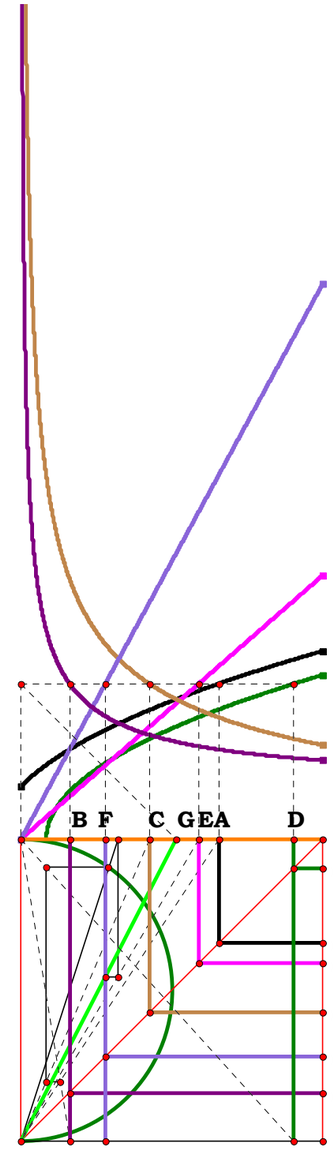
$$cd := \sqrt{ac\cdot(1-ac)} \qquad ag := \frac{cd}{1-ac} \qquad gh := 1-\frac{ag}{E}$$

$$G := \frac{F}{1-gh} \qquad G = 0.499628$$

Definitions.

$$G - \frac{E\cdot F\cdot(A\cdot D-B\cdot C+B\cdot D)}{\sqrt{B\cdot C\cdot(A\cdot D-B\cdot C+B\cdot D)}} = 0$$

$$G - \frac{\sqrt{A\cdot D}\cdot\sqrt{A\cdot(C-D)+B\cdot C}}{A\cdot D\cdot E\cdot F} = 0.499628 - 4.019221i$$



Unit = 1.00000

A = 0.65519

B = 0.16137

C = 0.42546

D = 0.90407

E = 0.58919

F = 0.27990

G = 0.51500

n_1 = 1.52628

n_2 = 6.19686

n_3 = 2.35040

n_4 = 1.10610

n_5 = 1.69723

n_6 = 3.57275

$$\frac{E\cdot F\cdot((A\cdot D-B\cdot C)+B\cdot D)}{\sqrt{B\cdot C\cdot((A\cdot D-B\cdot C)+B\cdot D)}}-G = 0.00000$$

$$\frac{\sqrt{n_1\cdot n_4\cdot(n_1\cdot(n_3-n_4)+n_2\cdot n_3)}}{n_1\cdot n_4\cdot n_5\cdot n_6}-G = 0.00000$$

2SMT6R9

Given. $A := .86000$ $B := .76745$

$C := .53414$ $D := .38159$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$ $n_3 := \frac{1}{C}$ $n_4 := \frac{1}{D}$

Descriptions.

$bA := \sqrt{1 + A^2}$ $bg := \frac{1}{bA}$ $bh := \frac{A \cdot bg}{bA}$

$fh := \frac{bh}{B}$ $ej := C \cdot fh$ $bk := \frac{ej}{1 - fh}$

$bc := \frac{bk}{bk + D}$ $cd := \sqrt{bc \cdot (1 - bc)}$ $E := \frac{cd}{bc}$

$E = 0.628194$

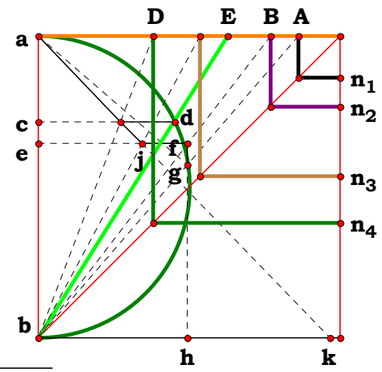
Definitions.

$$E - \frac{\sqrt{A \cdot C \cdot D \cdot \left(A^2 \cdot B - A + B\right)}}{A \cdot C} = 0$$

$$E - \frac{n_3 \cdot \sqrt{{n_1}^2 - n_2 \cdot n_1 + 1}}{\sqrt{n_1 \cdot n_2 \cdot n_3 \cdot n_4}} = 0$$

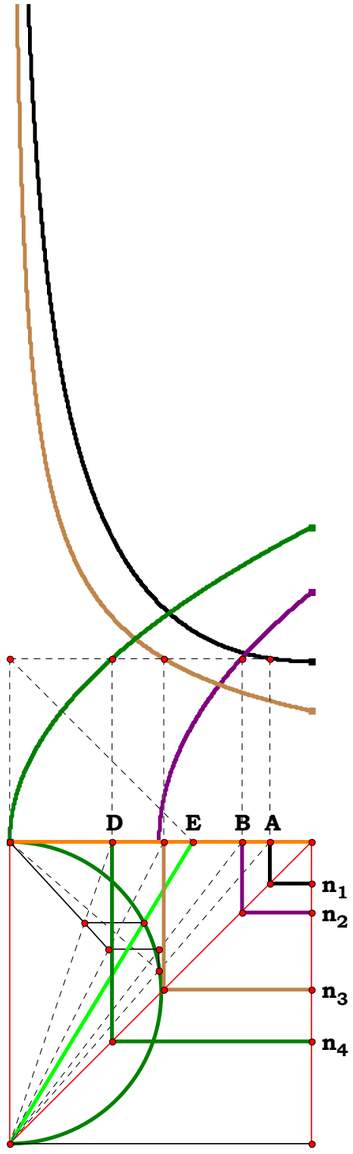
Unit = 1.00000
A = 0.86000
B = 0.76745
C = 0.53414
D = 0.38159
E = 0.62820

n_1 = 1.16279
n_2 = 1.30302
n_3 = 1.87218
n_4 = 2.62058



$\frac{\sqrt{A \cdot C \cdot D \cdot ((A^2 \cdot B - A) + B)}}{A \cdot C} - E = 0.00000$

$\frac{n_3 \cdot \sqrt{({n_1}^2 - n_1 \cdot n_2) + 1}}{\sqrt{n_1 \cdot n_2 \cdot n_3 \cdot n_4}} - E = 0.00000$



Unit = 1.00000
A = 0.86000
B = 0.76745
C = 0.50906
D = 0.33980
E = 0.60722

n_1 = 1.16279
n_2 = 1.30302
n_3 = 1.96442
n_4 = 2.94294

$\frac{\sqrt{A \cdot C \cdot D \cdot ((A^2 \cdot B - A) + B)}}{A \cdot C} - E = 0.00000$

$\frac{n_3 \cdot \sqrt{({n_1}^2 - n_1 \cdot n_2) + 1}}{\sqrt{n_1 \cdot n_2 \cdot n_3 \cdot n_4}} - E = 0.00000$

2SMT6R10

Given. $A := .86000$

$B := .72565$ $C := .19557$

$D := .57387$ $E := .64353$

$$n_1 := \frac{1}{A} \quad n_2 := \frac{1}{B} \quad n_3 := \frac{1}{C} \quad n_4 := \frac{1}{D} \quad n_5 := \frac{1}{E}$$

Descriptions.

$$bA := \sqrt{1 + A^2} \qquad bd := \frac{1}{bA} \qquad be := A \cdot \frac{bd}{bA}$$

$$ce := \frac{be}{B} \qquad bk := ce \cdot C \qquad bo := \frac{bk}{1 - ce}$$

$$bh := \frac{D \cdot bo}{bo + D} \qquad gh := 1 - \frac{bh}{E} \qquad F := \frac{bh}{gh}$$

$F = 0.387476$

Definitions.

$$F - \frac{A \cdot C \cdot D \cdot E}{D \cdot E \cdot \left(A^2 \cdot B - A + B\right) - A \cdot C \cdot (D - E)} = 0$$

$$F - \frac{n_1 \cdot n_2}{n_3 \cdot \left({n_1}^2 + 1\right) - n_1 \cdot n_2 \cdot \left(n_3 - n_4 + n_5\right)} = 0$$

Unit = 1.00000

A = 0.86000

B = 0.72565

C = 0.19557

D = 0.57387

E = 0.64353

F = 0.38747

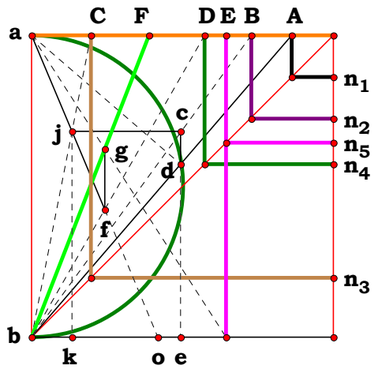
n_1 = 1.16279

n_2 = 1.37808

n_3 = 5.11328

n_4 = 1.74257

n_5 = 1.55392



$$\frac{A \cdot C \cdot D \cdot E}{D \cdot E \cdot ((A^2 \cdot B - A) + B) - A \cdot C \cdot (D - E)} - F = 0.00000$$

$$\frac{n_1 \cdot n_2}{n_3 \cdot (n_1{}^2 + 1) - n_1 \cdot n_2 \cdot ((n_3 - n_4) + n_5)} - F = 0.00000$$

Unit = 1.00000

A = 0.86000

B = 0.70475

C = 0.19557

D = 0.57805

E = 0.64353

F = 0.42516

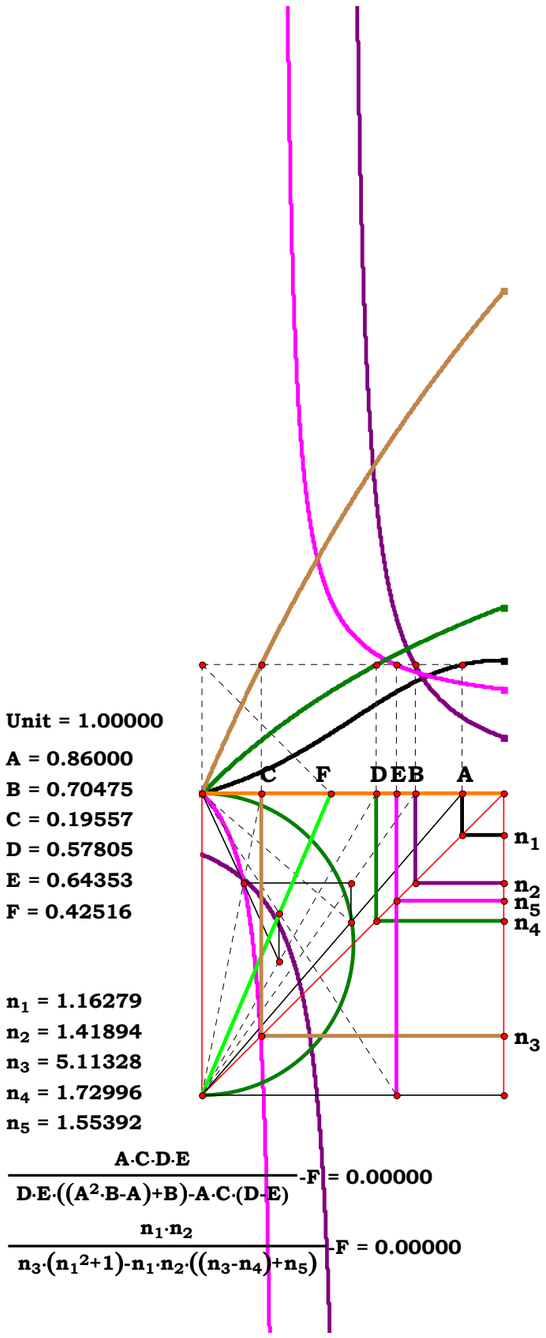
n_1 = 1.16279

n_2 = 1.41894

n_3 = 5.11328

n_4 = 1.72996

n_5 = 1.55392



$$\frac{A \cdot C \cdot D \cdot E}{D \cdot E \cdot ((A^2 \cdot B - A) + B) - A \cdot C \cdot (D - E)} - F = 0.00000$$

$$\frac{n_1 \cdot n_2}{n_3 \cdot (n_1{}^2 + 1) - n_1 \cdot n_2 \cdot ((n_3 - n_4) + n_5)} - F = 0.00000$$

2SMT6R11

Given. $A := .86000$ $B := .76745$ $C := .59683$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$ $n_3 := \frac{1}{C}$

Descriptions.

$bA := \sqrt{A^2 + 1}$ $bd := \frac{1}{bA}$ $be := \frac{A \cdot bd}{bA}$

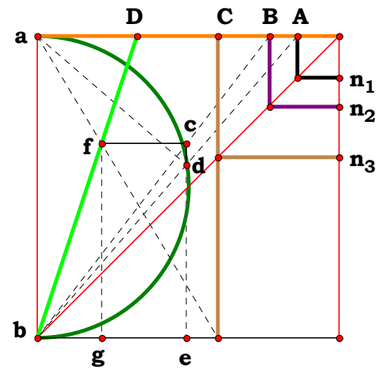
$ce := \frac{be}{B}$ $gh := C \cdot ce$ $bg := C - gh$

$D := \frac{bg}{ce}$ $D = 0.329683$

Definitions.

$$D - \frac{A^2 \cdot B \cdot C + B \cdot C - A \cdot C}{A} = 0$$

$$D - \frac{n_1^{\,2} - n_1 \cdot n_2 + 1}{n_1 \cdot n_2 \cdot n_3} = 0$$



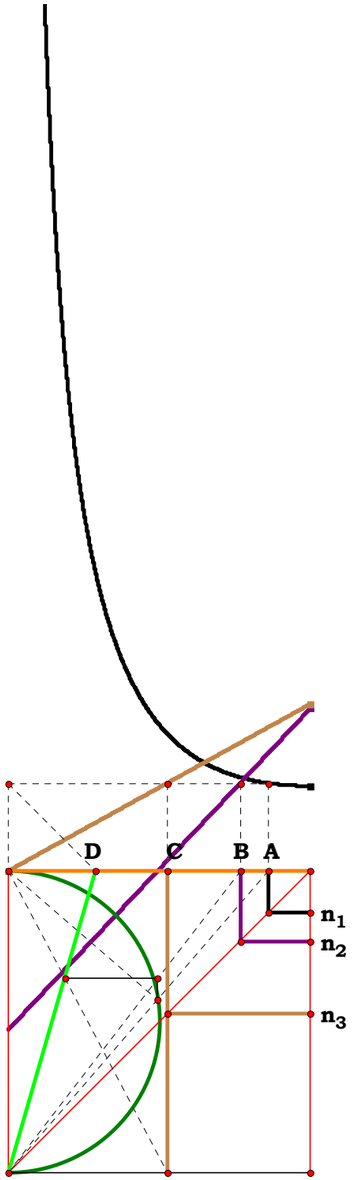
Unit = 1.00000

A = 0.86000
B = 0.76745
C = 0.59683
D = 0.32968

n_1 = 1.16279
n_2 = 1.30302
n_3 = 1.67551

$\frac{(A^2 \cdot B \cdot C + B \cdot C) - A \cdot C}{A} - D = 0.00000$

$\frac{(n_1^{\,2} - n_1 \cdot n_2) + 1}{n_1 \cdot n_2 \cdot n_3} - D = 0.00000$



Unit = 1.00000

A = 0.86000
B = 0.76745
C = 0.52578
D = 0.29043

n_1 = 1.16279
n_2 = 1.30302
n_3 = 1.90195

$\frac{(A^2 \cdot B \cdot C + B \cdot C) - A \cdot C}{A} - D = 0.00000$

$\frac{(n_1^{\,2} - n_1 \cdot n_2) + 1}{n_1 \cdot n_2 \cdot n_3} - D = 0.00000$

2SMT6R12

Given. $A := .86000$ $B := .44560$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$

Descriptions.

$bg := \frac{A \cdot B}{A + B}$ $bA := \sqrt{A^2 + 1}$ $bc := \frac{1}{bA}$

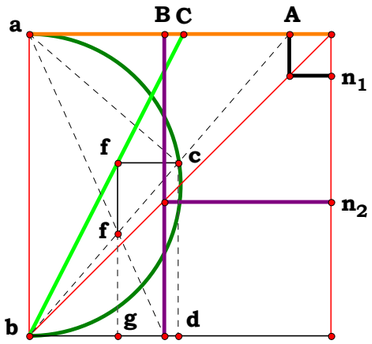
$cd := \frac{bc}{bA}$ $C := \frac{bg}{cd}$

$C = 0.510602$

Definitions.

$$C - \frac{A^3 \cdot B + A \cdot B}{A + B} = 0$$

$$C - \frac{n_1^2 + 1}{n_1^2 \cdot (n_1 + n_2)} = 0$$



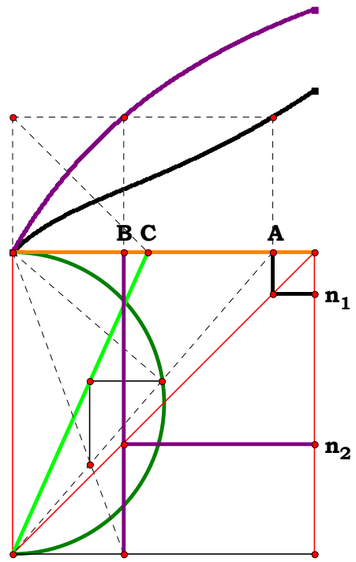
Unit = 1.00000

A = 0.86000
B = 0.44560
C = 0.51060

n_1 = 1.16279
n_2 = 2.24416

$\frac{A^3 \cdot B + A \cdot B}{A+B} - C = 0.00000$

$\frac{n_1^2+1}{n_1^2 \cdot (n_1+n_2)} - C = 0.00000$



Unit = 1.00000

A = 0.86000
B = 0.36618
C = 0.44678

n_1 = 1.16279
n_2 = 2.73087

$\frac{A^3 \cdot B + A \cdot B}{A+B} - C = 0.00000$

$\frac{n_1^2+1}{n_1^2 \cdot (n_1+n_2)} - C = 0.00000$

2SMT6R13

Given. $A := 1.97294$

$B := 1.51516$ $C := 1.25037$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$ $n_3 := \frac{1}{C}$

Descriptions.

$bA := \sqrt{A^2 + 1}$ $bd := \frac{1}{bA}$ $be := \frac{A \cdot bd}{bA}$ $de := \frac{be}{A}$

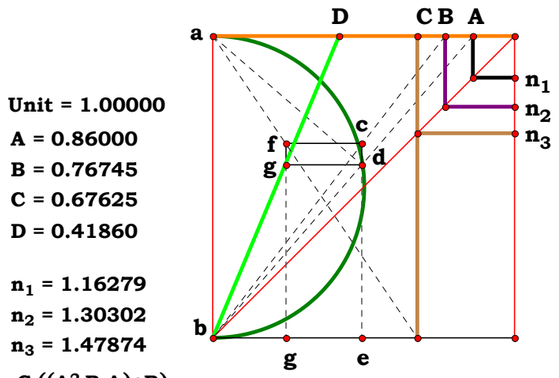
$ce := \frac{be}{B}$ $hj := C \cdot ce$ $bh := C - hj$

$D := \frac{bh}{de}$ $D = 4.489277$

Definitions.

$$D - \frac{C \cdot \left(A^2 \cdot B - A + B\right)}{B} = 0$$

$$D - \frac{n_1^{\,2} - n_2 \cdot n_1 + 1}{n_1^{\,2} \cdot n_3} = 0$$

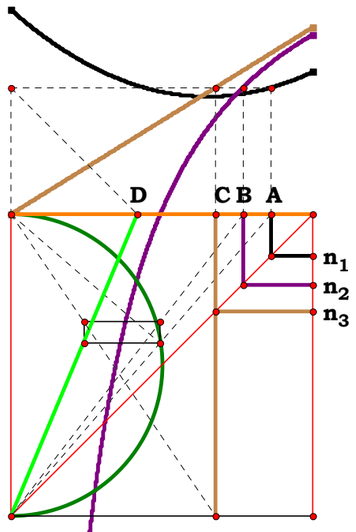


Unit = 1.00000
A = 0.86000
B = 0.76745
C = 0.67625
D = 0.41860

$n_1 = 1.16279$
$n_2 = 1.30302$
$n_3 = 1.47874$

$\frac{C \cdot ((A^2 \cdot B - A) + B)}{B} - D = 0.00000$

$\frac{(n_1^{\,2} - n_1 \cdot n_2) + 1}{n_1^{\,2} \cdot n_3} - D = 0.00000$



Unit = 1.00000
A = 0.86000
B = 0.76745
C = 0.67625
D = 0.41860

$n_1 = 1.16279$
$n_2 = 1.30302$
$n_3 = 1.47874$

$\frac{C \cdot ((A^2 \cdot B - A) + B)}{B} - D = 0.00000$

$\frac{(n_1^{\,2} - n_1 \cdot n_2) + 1}{n_1^{\,2} \cdot n_3} - D = 0.00000$

2SMT6R14

Given. $A := .86000$ $B := .70475$ $C := .61773$

$$n_1 := \frac{1}{A} \quad n_2 := \frac{1}{B} \quad n_3 := \frac{1}{C}$$

Descriptions.

$$bA := \sqrt{A^2 + 1} \quad bc := \frac{1}{bA} \quad CD := \frac{bc}{bA}$$

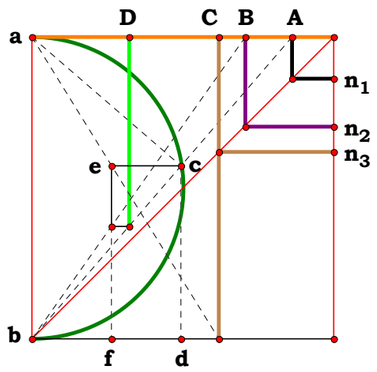
$$fg := C \cdot CD \quad bf := C - fg \quad hf := \frac{bf}{B}$$

$D := A \cdot hf$ $D = 0.320486$

Definitions.

$$D - \frac{A^3 \cdot C}{A^2 \cdot B + B} = 0$$

$$D - \frac{n_2}{n_1 \cdot n_3 \cdot \left(n_1^2 + 1\right)} = 0$$



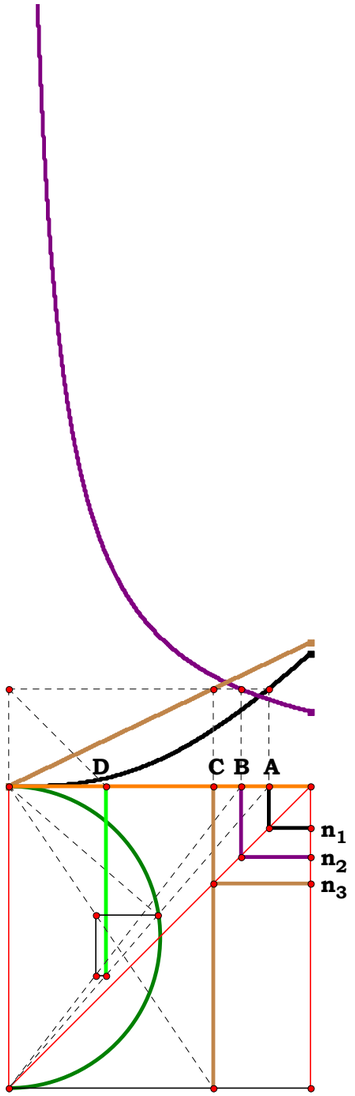
Unit = 1.00000

A = 0.86000
B = 0.70475
C = 0.61773
D = 0.32049

n_1 = 1.16279
n_2 = 1.41894
n_3 = 1.61882

$\frac{A^3 \cdot C}{A^2 \cdot B + B}$ -D = 0.00000

$\frac{n_2}{n_1 \cdot n_3 \cdot (n_1^2 + 1)}$ -D = 0.00000



Unit = 1.00000

A = 0.86000
B = 0.76745
C = 0.67625
D = 0.32218

n_1 = 1.16279
n_2 = 1.30302
n_3 = 1.47874

$\frac{A^3 \cdot C}{A^2 \cdot B + B}$ -D = 0.00000

$\frac{n_2}{n_1 \cdot n_3 \cdot (n_1^2 + 1)}$ -D = 0.00000

2SMT6R15

Given. $A := .86000$ $B := .76745$ $C := .67625$ $D := .14752$

$$n_1 := \frac{1}{A} \quad n_2 := \frac{1}{B} \quad n_3 := \frac{1}{C} \quad n_4 := \frac{1}{D}$$

Descriptions.

$$bA := \sqrt{1 + A^2} \qquad bc := \frac{1}{bA} \qquad ef := 1 \cdot \frac{bc}{bA}$$

$$bf := C \cdot (1 - ef) \qquad df := \frac{bf}{B}$$

$$E := \frac{D}{df} \qquad E = 0.393773$$

Definitions.

$$E - \frac{B \cdot D \cdot \left(A^2 + 1\right)}{A^2 \cdot C} = 0$$

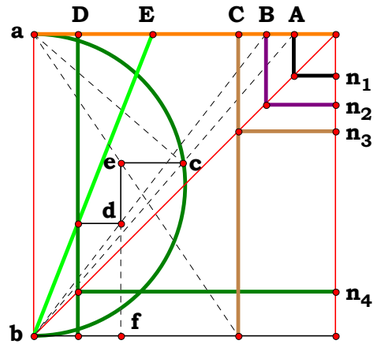
$$E - \frac{n_3 \cdot \left(n_1{}^2 + 1\right)}{n_2 \cdot n_4} = 0$$

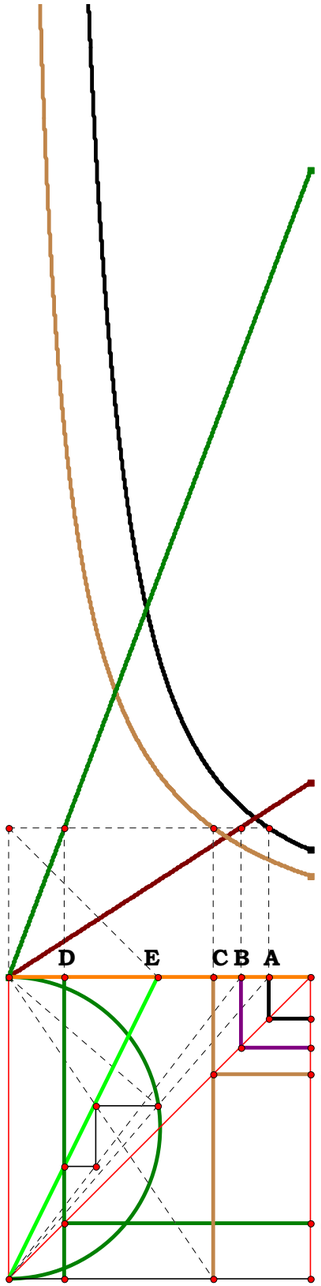
Unit = 1.00000
A = 0.86000
B = 0.76745
C = 0.67625
D = 0.14752
E = 0.39378

n_1 = 1.16279
n_2 = 1.30302
n_3 = 1.47874
n_4 = 6.77856

$\frac{B \cdot D \cdot (A^2+1)}{A^2 \cdot C}$ -E = 0.00000

$\frac{n_3 \cdot (n_1{}^2+1)}{n_2 \cdot n_4}$ -E = 0.00000



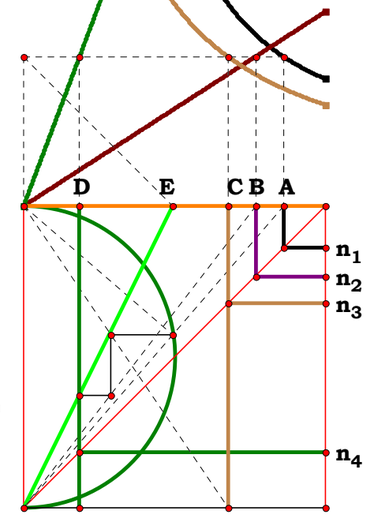


Unit = 1.00000
A = 0.86000
B = 0.76745
C = 0.67625
D = 0.18514
E = 0.49420

n_1 = 1.16279
n_2 = 1.30302
n_3 = 1.47874
n_4 = 5.40125

$\frac{B \cdot D \cdot (A^2+1)}{A^2 \cdot C}$ -E = 0.00000

$\frac{n_3 \cdot (n_1{}^2+1)}{n_2 \cdot n_4}$ -E = 0.00000



2SMT7R0

Given. $A := .25393$ $B := .12793$ $C := .62191$ $D := .77450$

$$n_1 := \frac{1}{A} \quad n_2 := \frac{1}{B} \quad n_3 := \frac{1}{C} \quad n_4 := \frac{1}{D}$$

Descriptions.

$$hj := \frac{B}{A} \qquad gm := D \cdot hj$$

$$bg := D - gm \qquad ak := \frac{bg}{hj}$$

$$bk := \sqrt{ak^2 + 1} \qquad be := \frac{1}{bk}$$

$$cd := \frac{be}{bk} \qquad E := C \cdot cd$$

$E = 0.393144$

Definitions.

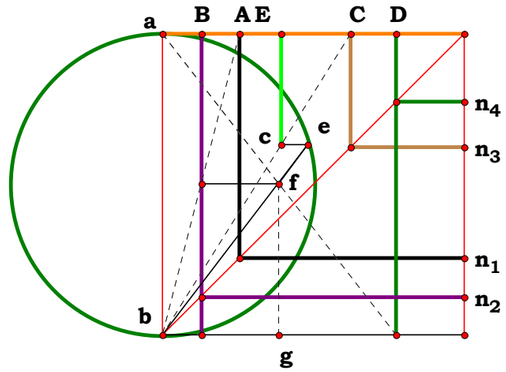
$$E - \frac{B^2 \cdot C}{A \cdot D^2 \cdot (A - 2 \cdot B) + B^2 \cdot \left(D^2 + 1\right)} = 0$$

$$E - \frac{n_1^{\,2} \cdot n_4^{\,2}}{n_1^{\,2} \cdot n_3 \cdot n_4^{\,2} + n_3 \cdot \left(n_1 - n_2\right)^2} = 0$$

Unit = 1.00000

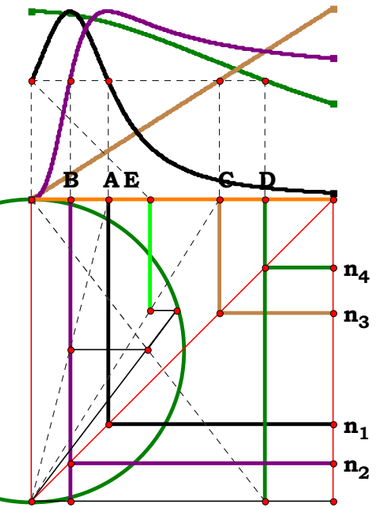
A = 0.25393
B = 0.12793
C = 0.62191
D = 0.77450
E = 0.39317

$n_1 = 3.93817$
$n_2 = 7.81656$
$n_3 = 1.60794$
$n_4 = 1.29116$



$$\frac{B^2 \cdot C}{A \cdot D^2 \cdot (A-2 \cdot B) + B^2 \cdot (D^2+1)} - E = 0.00000$$

$$\frac{(n_1 \cdot n_4)^2}{n_3 \cdot ((n_1 \cdot n_4)^2 + (n_1 - n_2)^2)} - E = 0.00000$$



Unit = 1.00000

A = 0.25393
B = 0.12793
C = 0.62191
D = 0.77450
E = 0.39317

$n_1 = 3.93817$
$n_2 = 7.81656$
$n_3 = 1.60794$
$n_4 = 1.29116$

$$\frac{B^2 \cdot C}{A \cdot D^2 \cdot (A-2 \cdot B) + B^2 \cdot (D^2+1)} - E = 0.00000$$

$$\frac{(n_1 \cdot n_4)^2}{n_3 \cdot ((n_1 \cdot n_4)^2 + (n_1 - n_2)^2)} - E = 0.00000$$

2SMT7R1

Given. $A := .87672$ $B := .23243$ $C := .43800$ $D := .53207$ $E := .66443$

$$n_1 := \frac{1}{A} \quad n_2 := \frac{1}{B} \quad n_3 := \frac{1}{C} \quad n_4 := \frac{1}{D} \quad n_5 := \frac{1}{E}$$

Descriptions.

$$jB := \frac{A - B}{A} \qquad bh := C \cdot jB \qquad ak := \frac{bh}{1 - jB}$$

$$bk := \sqrt{1 + ak^2} \qquad bc := \frac{1}{bk} \qquad ef := \frac{bc}{bk}$$

$$bf := D \cdot ef \qquad df := 1 - \frac{bf}{E} \qquad F := \frac{bf}{df}$$

$F = 0.317975$

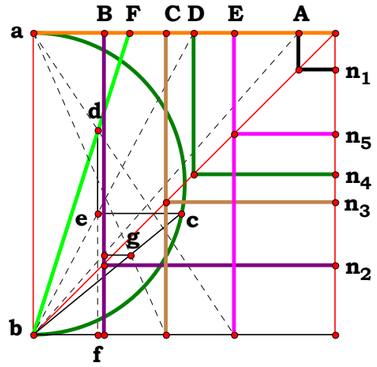
Definitions.

$$F - \frac{B^2 \cdot D \cdot E}{C^2 \cdot E \cdot (A - B)^2 - B^2 \cdot (D - E)} = 0$$

$$F - \frac{n_1^{\,2} \cdot n_3^{\,2}}{n_4 \cdot (n_1 - n_2)^2 + n_1^{\,2} \cdot n_3^{\,2} \cdot (n_4 - n_5)} = 0$$

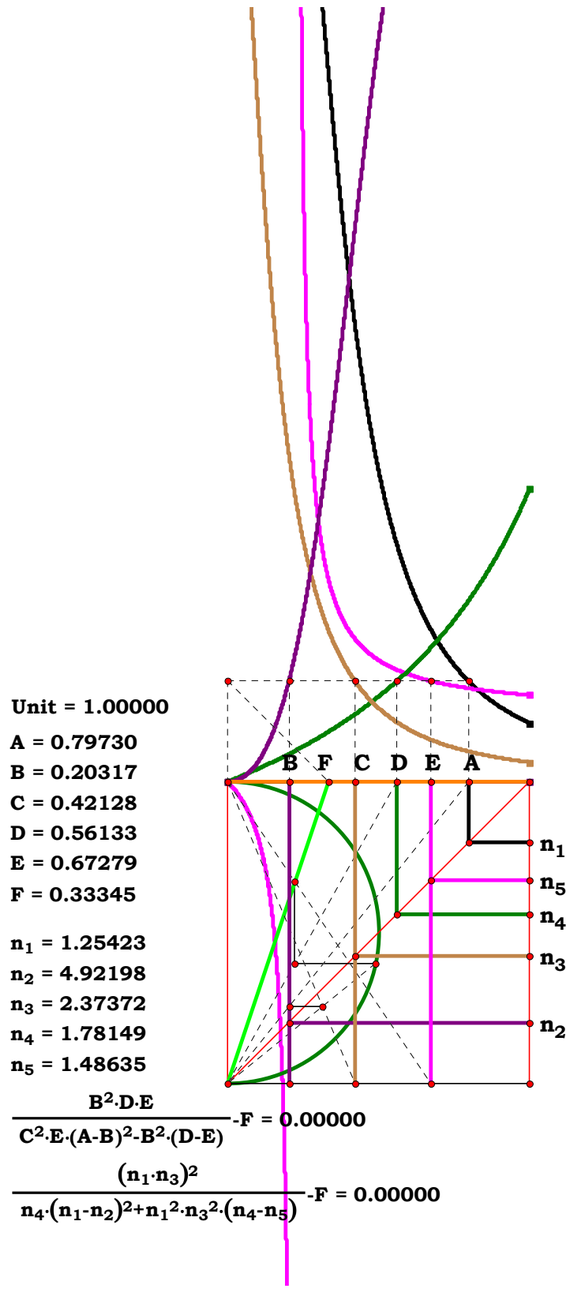
Unit = 1.00000
A = 0.87672
B = 0.23243
C = 0.43800
D = 0.53207
E = 0.66443
F = 0.31797

n_1 = 1.14061
n_2 = 4.30238
n_3 = 2.28311
n_4 = 1.87946
n_5 = 1.50505



$$\frac{B^2 \cdot D \cdot E}{C^2 \cdot E \cdot (A-B)^2 - B^2 \cdot (D-E)} - F = 0.00000$$

$$\frac{(n_1 \cdot n_3)^2}{n_4 \cdot (n_1-n_2)^2 + n_1^2 \cdot n_3^2 \cdot (n_4-n_5)} - F = 0.00000$$



2SMT7R2

Given. $A := .83910$ $B := .43724$ $C := .71387$ $D := .31054$ $E := .56830$

$$n_1 := \frac{1}{A} \quad n_2 := \frac{1}{B} \quad n_3 := \frac{1}{C} \quad n_4 := \frac{1}{D} \quad n_5 := \frac{1}{E}$$

Descriptions.

$$jk := \frac{B}{A} \qquad bk := C \cdot (1 - jk) \qquad ao := \frac{bk}{jk}$$

$$bo := \sqrt{1 + ao^2} \qquad bh := \frac{1}{bo} \qquad ef := \frac{bh}{bo}$$

$$bf := ef \cdot D \qquad ac := \frac{bf}{E} \qquad CG := \sqrt{ac \cdot (1 - ac)}$$

$$F := \frac{CG}{1 - ac} \qquad F = 0.786202$$

Definitions.

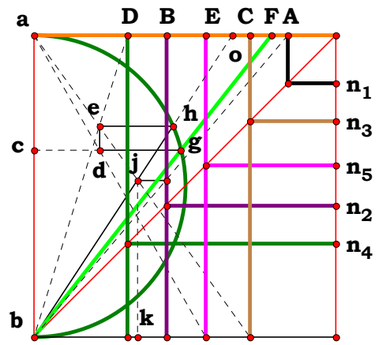
$$F - \frac{B \cdot \sqrt{D \cdot E^2 \cdot \left[C^2 \cdot E \cdot (A - B)^2 - B^2 \cdot (D - E)\right]}}{E \cdot \left[C^2 \cdot E \cdot (A - B)^2 - B^2 \cdot (D - E)\right]} = 0$$

$$F - \frac{n_1 \cdot n_3 \cdot \sqrt{n_5} \cdot \sqrt{n_4 \cdot (n_1 - n_2)^2 + n_1^2 \cdot n_3^2 \cdot (n_4 - n_5)}}{n_1^2 \cdot \left[n_3^2 \cdot (n_4 - n_5) + n_4\right] - n_2 \cdot n_4 \cdot (2 \cdot n_1 - n_2)} = 0$$

Unit = 1.00000

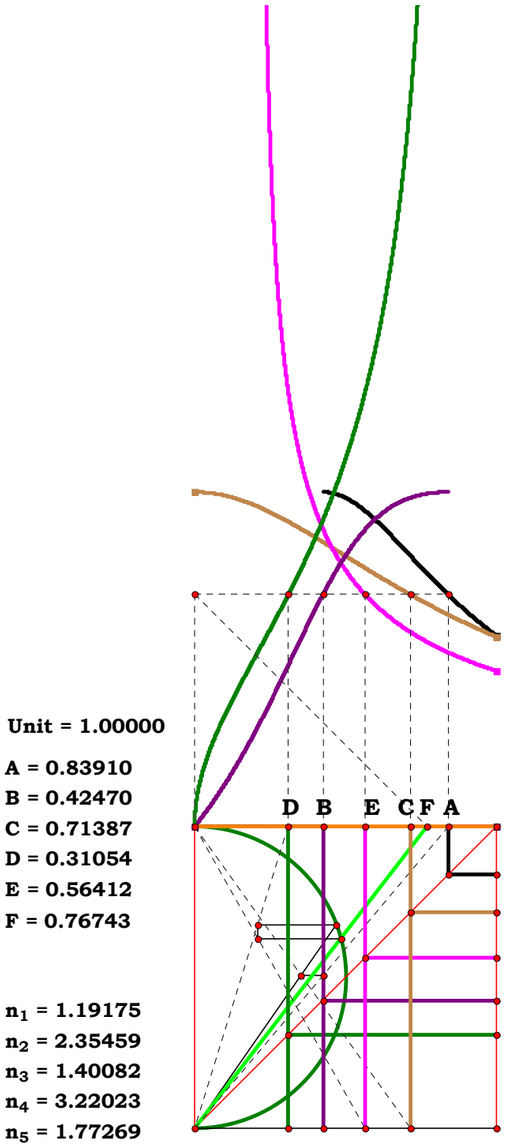
A = 0.83910
B = 0.43724
C = 0.71387
D = 0.31054
E = 0.56830
F = 0.78620

n_1 = 1.19175
n_2 = 2.28707
n_3 = 1.40082
n_4 = 3.22023
n_5 = 1.75965



$$\frac{B \cdot \sqrt{D \cdot E^2 \cdot (C^2 \cdot E \cdot (A-B)^2 - B^2 \cdot (D-E))}}{E \cdot (C^2 \cdot E \cdot (A-B)^2 - B^2 \cdot (D-E))} - F = 0.00000$$

$$\frac{n_1 \cdot n_3 \cdot \sqrt{n_5 \cdot (n_4 \cdot (n_1 - n_2)^2 + n_1^2 \cdot n_3^2 \cdot (n_4 - n_5))}}{n_1^2 \cdot (n_3^2 \cdot (n_4 - n_5) + n_4) - n_2 \cdot n_4 \cdot (2 \cdot n_1 - n_2)} - F = 0.00000$$



Unit = 1.00000

A = 0.83910
B = 0.42470
C = 0.71387
D = 0.31054
E = 0.56412
F = 0.76743

n_1 = 1.19175
n_2 = 2.35459
n_3 = 1.40082
n_4 = 3.22023
n_5 = 1.77269

$$\frac{B \cdot \sqrt{D \cdot E^2 \cdot (C^2 \cdot E \cdot (A-B)^2 - B^2 \cdot (D-E))}}{E \cdot (C^2 \cdot E \cdot (A-B)^2 - B^2 \cdot (D-E))} - F = 0.00000$$

$$\frac{n_1 \cdot n_3 \cdot \sqrt{n_5 \cdot (n_4 \cdot (n_1 - n_2)^2 + n_1^2 \cdot n_3^2 \cdot (n_4 - n_5))}}{n_1^2 \cdot (n_3^2 \cdot (n_4 - n_5) + n_4) - n_2 \cdot n_4 \cdot (2 \cdot n_1 - n_2)} - F = 0.00000$$

2SMT7R3

Given. $A := .80984$ $B := .68385$

$C := .32932$ $D := .60731$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$ $n_3 := \frac{1}{C}$ $n_4 := \frac{1}{D}$

Descriptions.

$bA := \sqrt{A^2 + 1}$ $bc := \frac{1}{bA}$ $cd := \frac{bc}{bA}$

$gh := D \cdot cd$ $bg := D - gh$ $eg := \frac{bg}{C}$

$E := \frac{B}{eg}$ $E = 0.936243$

Definitions.

$$E - \frac{A^2 \cdot B \cdot C + B \cdot C}{A^2 \cdot D} = 0$$

$$E - \frac{n_4 \cdot \left(n_1{}^2 + 1\right)}{n_2 \cdot n_3} = 0$$

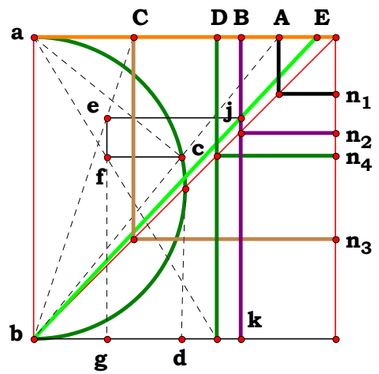
Unit = 1.00000

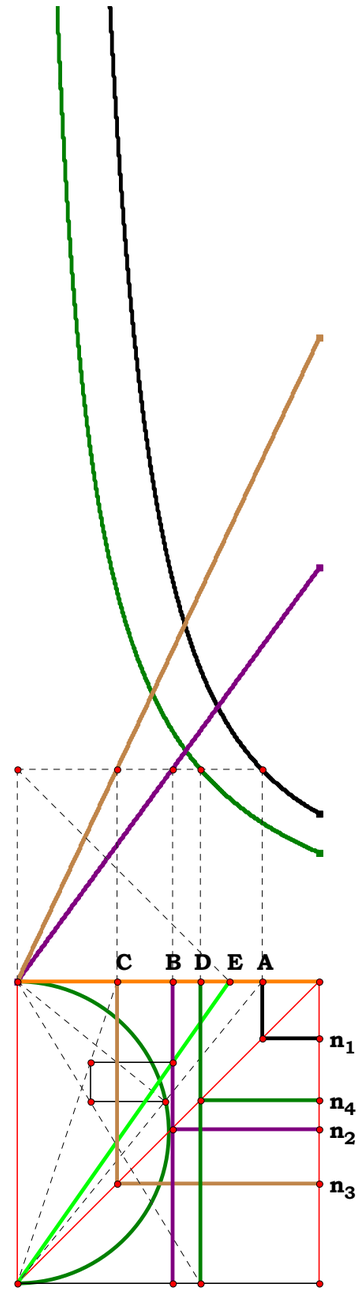
A = 0.80984
B = 0.68385
C = 0.32932
D = 0.60731
E = 0.93626

n_1 = 1.23481
n_2 = 1.46231
n_3 = 3.03653
n_4 = 1.64662

$\frac{A^2 \cdot B \cdot C + B \cdot C}{A^2 \cdot D} - E = 0.00000$

$\frac{n_4 \cdot (n_1{}^2 + 1)}{n_2 \cdot n_3} - E = 0.00000$





Unit = 1.00000

A = 0.80984
B = 0.51248
C = 0.32932
D = 0.60731
E = 0.70163

n_1 = 1.23481
n_2 = 1.95130
n_3 = 3.03653
n_4 = 1.64662

$\frac{A^2 \cdot B \cdot C + B \cdot C}{A^2 \cdot D} - E = 0.00000$

$\frac{n_4 \cdot (n_1{}^2 + 1)}{n_2 \cdot n_3} - E = 0.00000$

2SMT7R4

Given. $A := .86000$ $B := .66713$ $C := .72641$ $D := .54461$ $E := .80655$ $F := .13360$

$$n_1 := \frac{1}{A} \quad n_2 := \frac{1}{B} \quad n_3 := \frac{1}{C}$$

$$n_4 := \frac{1}{D} \quad n_5 := \frac{1}{E} \quad n_6 := \frac{1}{F}$$

Descriptions.

$$gh := \frac{B}{A} \qquad bh := C \cdot (1 - gh) \qquad aj := \frac{bh}{gh}$$

$$bj := \sqrt{1 + aj^2} \qquad bf := \frac{1}{bj} \qquad de := \frac{bf}{bj}$$

$$be := de \cdot D \qquad ce := 1 - \frac{be}{E}$$

$$G := \frac{F}{ce} \qquad G = 0.378162$$

Definitions.

$$G - \frac{E \cdot F \cdot \left[A \cdot C^2 \cdot (A - 2 \cdot B) + B^2 \cdot \left(C^2 + 1\right)\right]}{E \cdot \left[A \cdot C^2 \cdot (A - 2 \cdot B) + B^2 \cdot \left(C^2 + 1\right)\right] - B^2 \cdot D} = 0$$

$$G - \frac{n_4 \cdot \left(n_1 - n_2\right)^2 + n_1{}^2 \cdot n_3{}^2 \cdot n_4}{n_4 \cdot n_6 \cdot \left(n_1 - n_2\right)^2 + n_1{}^2 \cdot n_3{}^2 \cdot n_6 \cdot \left(n_4 - n_5\right)} = 0$$

Unit = 1.00000

A = 0.86000

B = 0.66713

C = 0.72641

D = 0.54461

E = 0.80655

F = 0.13360

G = 0.37817

n_1 = 1.16279

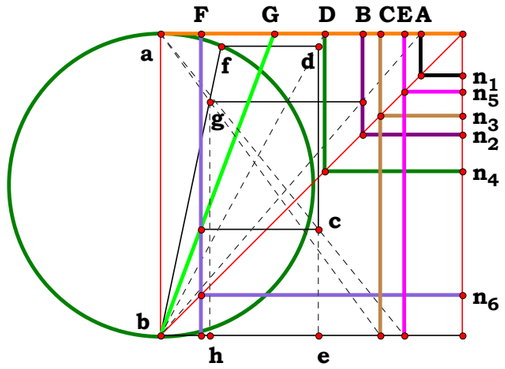
n_2 = 1.49895

n_3 = 1.37664

n_4 = 1.83618

n_5 = 1.23986

n_6 = 7.48492



$$\frac{E \cdot F \cdot \left(A \cdot C^2 \cdot (A - 2 \cdot B) + B^2 \cdot \left(C^2 + 1\right)\right)}{E \cdot \left(A \cdot C^2 \cdot (A - 2 \cdot B) + B^2 \cdot \left(C^2 + 1\right)\right) - B^2 \cdot D} - G = 0.00000$$

$$\frac{n_4 \cdot (n_1 - n_2)^2 + n_1{}^2 \cdot n_3{}^2 \cdot n_4}{n_4 \cdot n_6 \cdot (n_1 - n_2)^2 + n_1{}^2 \cdot n_3{}^2 \cdot n_6 \cdot (n_4 - n_5)} - G = 0.00000$$

Unit = 1.00000

A = 0.86000

B = 0.65041

C = 0.70969

D = 0.59059

E = 0.80655

F = 0.13778

G = 0.45300

n_1 = 1.16279

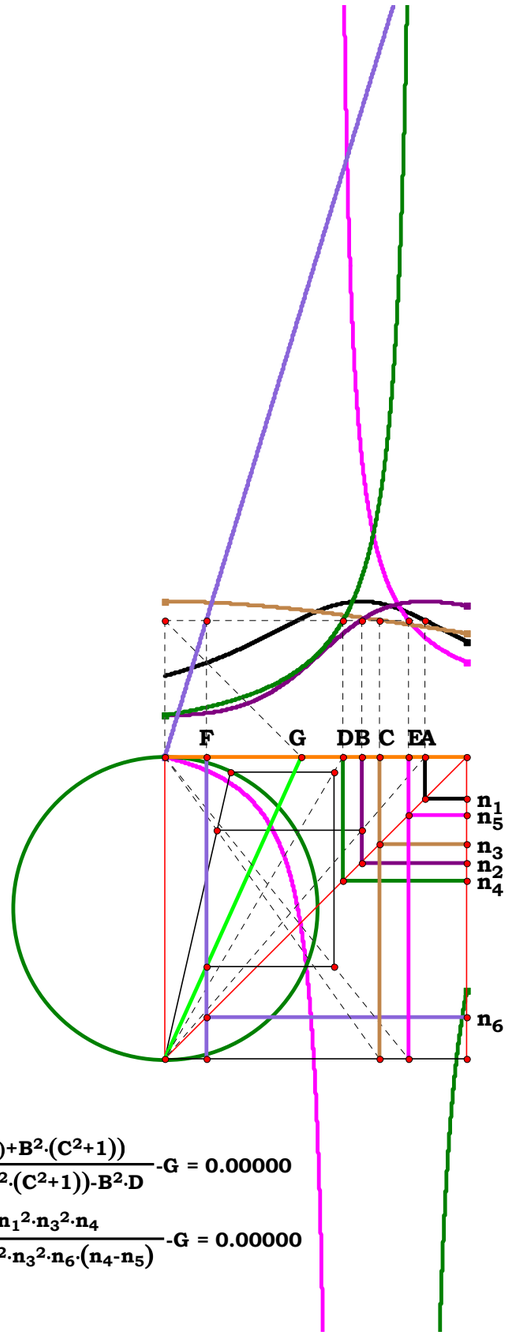
n_2 = 1.53749

n_3 = 1.40907

n_4 = 1.69323

n_5 = 1.23986

n_6 = 7.25785



$$\frac{E \cdot F \cdot \left(A \cdot C^2 \cdot (A - 2 \cdot B) + B^2 \cdot \left(C^2 + 1\right)\right)}{E \cdot \left(A \cdot C^2 \cdot (A - 2 \cdot B) + B^2 \cdot \left(C^2 + 1\right)\right) - B^2 \cdot D} - G = 0.00000$$

$$\frac{n_4 \cdot (n_1 - n_2)^2 + n_1{}^2 \cdot n_3{}^2 \cdot n_4}{n_4 \cdot n_6 \cdot (n_1 - n_2)^2 + n_1{}^2 \cdot n_3{}^2 \cdot n_6 \cdot (n_4 - n_5)} - G = 0.00000$$

2SMT7R5

Given. $A := .84746$

$B := .66295$ $C := .56339$

$D := .27710$ $E := .38856$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$ $n_3 := \frac{1}{C}$ $n_4 := \frac{1}{D}$ $n_5 := \frac{1}{E}$

Descriptions.

$bA := \sqrt{1 + A^2}$ $bd := \frac{1}{bA}$ $de := \frac{bd}{bA}$

$be := A \cdot de$ $ce := \frac{be}{B}$ $bh := C \cdot (1 - ce)$

$fh := \frac{bh}{D}$ $F := \frac{E}{fh}$ $F = 0.746501$

Definitions.

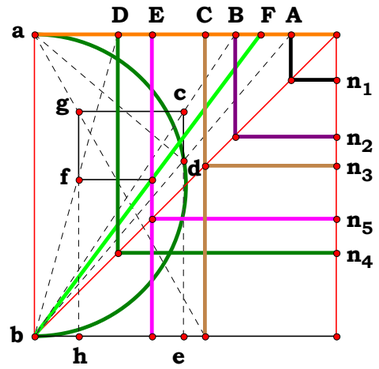
$$F - \frac{B \cdot D \cdot E \cdot \left(A^2 + 1\right)}{C \cdot \left(A^2 \cdot B - A + B\right)} = 0$$

$$F - \frac{n_3 \cdot \left(n_1{}^2 + 1\right)}{n_4 \cdot n_5 \cdot \left(n_1{}^2 - n_2 \cdot n_1 + 1\right)} = 0$$

Unit = 1.00000

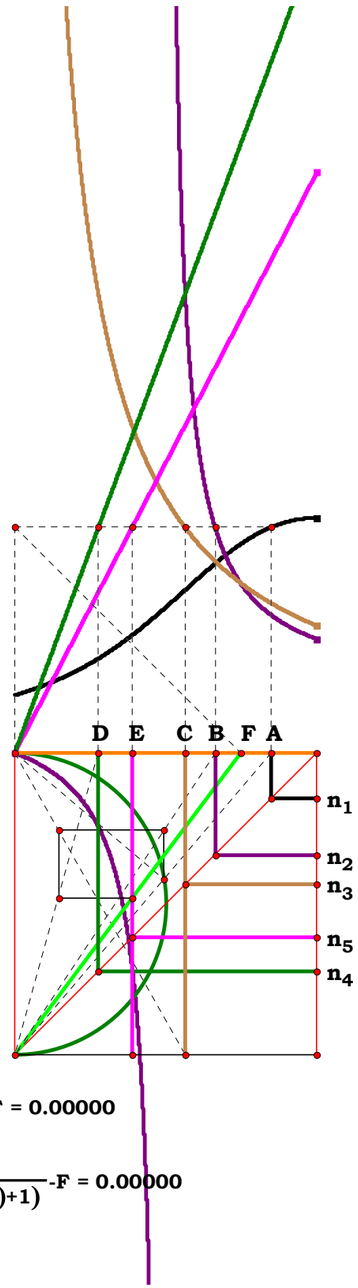
A = 0.84746
B = 0.66295
C = 0.56339
D = 0.27710
E = 0.38856
F = 0.74649

n_1 = 1.17999
n_2 = 1.50841
n_3 = 1.77496
n_4 = 3.60882
n_5 = 2.57359



$$\frac{B \cdot D \cdot E \cdot (A^2+1)}{C \cdot ((A^2 \cdot B - A) + B)} - F = 0.00000$$

$$\frac{n_3 \cdot (n_1{}^2+1)}{n_4 \cdot n_5 \cdot ((n_1{}^2 - n_1 \cdot n_2)+1)} - F = 0.00000$$



Unit = 1.00000

A = 0.84746
B = 0.66295
C = 0.56339
D = 0.27710
E = 0.38856
F = 0.74649

n_1 = 1.17999
n_2 = 1.50841
n_3 = 1.77496
n_4 = 3.60882
n_5 = 2.57359

$$\frac{B \cdot D \cdot E \cdot (A^2+1)}{C \cdot ((A^2 \cdot B - A) + B)} - F = 0.00000$$

$$\frac{n_3 \cdot (n_1{}^2+1)}{n_4 \cdot n_5 \cdot ((n_1{}^2 - n_1 \cdot n_2)+1)} - F = 0.00000$$

2SMT7R6

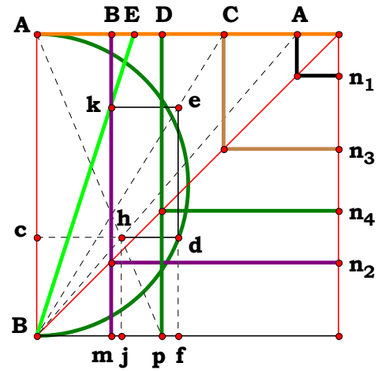
Given. $A := .86000$ $B := .24497$ $C := .61773$ $D := .41503$

$$n_1 := \frac{1}{A} \quad n_2 := \frac{1}{B} \quad n_3 := \frac{1}{C} \quad n_4 := \frac{1}{D}$$

Unit = 1.00000

A = 0.86000
B = 0.24497
C = 0.61773
D = 0.41503
E = 0.32295

n_1 = 1.16279
n_2 = 4.08215
n_3 = 1.61882
n_4 = 2.40945



$$\frac{B \cdot C \cdot (A+D)}{\sqrt{A \cdot D}} = 0.32295$$

$$\frac{(n_1+n_4) \cdot \sqrt{n_1 \cdot n_4}}{n_1 \cdot n_2 \cdot n_3 \cdot n_4} = 0.32295$$

Descriptions.

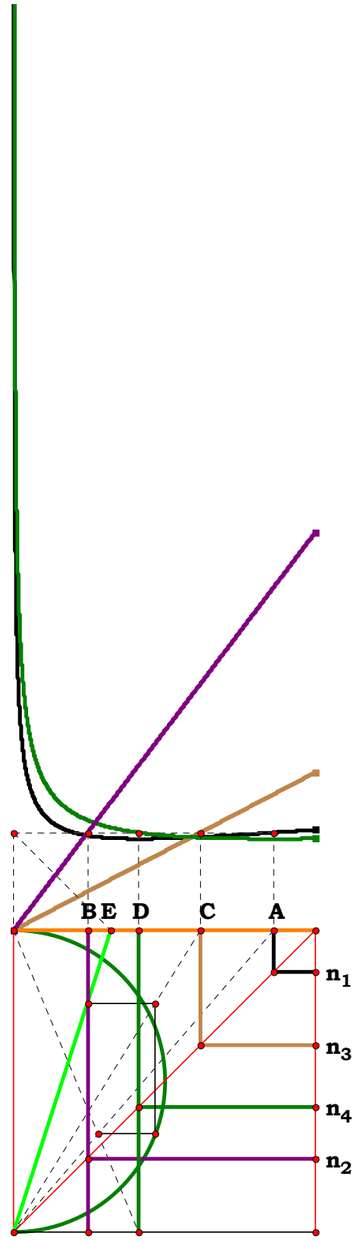
$$hj := \frac{D}{D+A} \qquad ce := \sqrt{hj \cdot (1-hj)} \qquad df := \frac{ce}{C}$$

$$E := \frac{B}{df} \qquad E = 0.322956$$

Definitions.

$$E - \frac{B \cdot C \cdot (A+D)}{\sqrt{A \cdot D}} = 0$$

$$E - \frac{\sqrt{n_1 \cdot n_4} \cdot (n_1 + n_4)}{n_1 \cdot n_2 \cdot n_3 \cdot n_4} = 0$$



Unit = 1.00000

A = 0.86000
B = 0.24497
C = 0.61773
D = 0.41503
E = 0.32295

n_1 = 1.16279
n_2 = 4.08215
n_3 = 1.61882
n_4 = 2.40945

$$\frac{B \cdot C \cdot (A+D)}{\sqrt{A \cdot D}} = 0.32295$$

$$\frac{(n_1+n_4) \cdot \sqrt{n_1 \cdot n_4}}{n_1 \cdot n_2 \cdot n_3 \cdot n_4} = 0.32295$$

2SMT8R0

Given.

$A := .86000$ $B := .76745$

$C := .45054$ $D := .57387$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$ $n_3 := \frac{1}{C}$ $n_4 := \frac{1}{D}$

Descriptions.

$gh := \frac{C}{B + C}$ $bh := \frac{B \cdot C}{B + C}$ $be := \frac{gh \cdot A}{A - bh}$

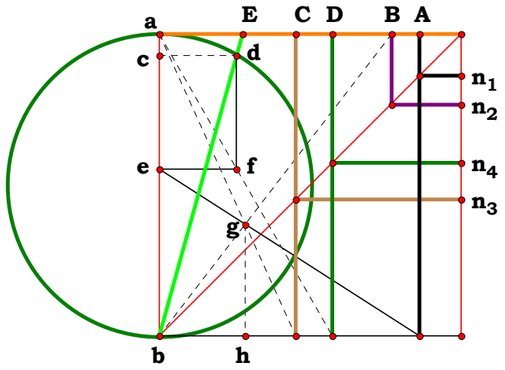
$cd := D \cdot (1 - be)$ $ac := \frac{1}{2} - \sqrt{\left(\frac{1}{2}\right)^2 - cd^2}$

$E := \frac{cd}{1 - ac}$ $E = 0.276664$

Definitions.

$$E - \frac{2 \cdot B \cdot D \cdot (A - C)}{\sqrt{(A \cdot B + A \cdot C - B \cdot C)^2 - 4 \cdot B^2 \cdot D^2 \cdot (A - C)^2} + A \cdot B + A \cdot C - B \cdot C} = 0$$

$$E - \frac{2 \cdot (n_1 - n_3)}{n_4 \cdot (n_1 - n_2 - n_3) - \sqrt{n_4^2 \cdot (n_1 - n_2 - n_3)^2 - 4 \cdot (n_1 - n_3)^2}} = 0$$



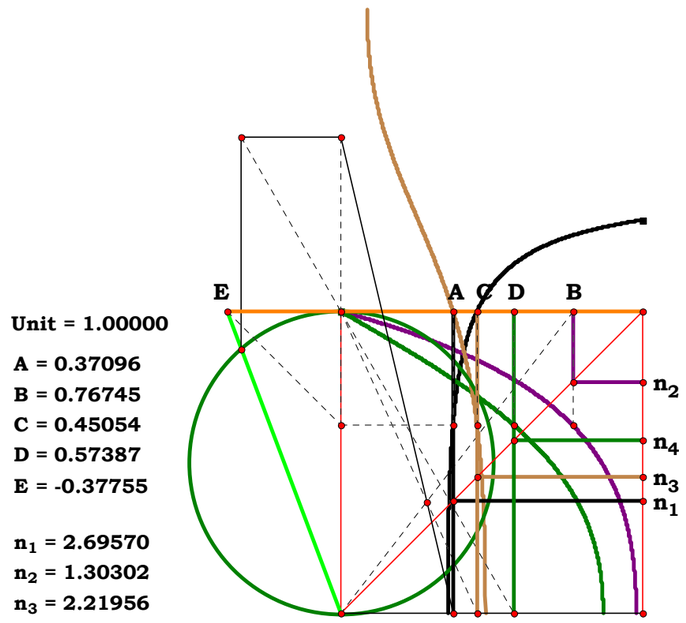
Unit = 1.00000

A = 0.86000
B = 0.76745
C = 0.45054
D = 0.57387
E = 0.27666

n_1 = 1.16279
n_2 = 1.30302
n_3 = 2.21956
n_4 = 1.74257

$$\frac{2 \cdot B \cdot D \cdot (A-C)}{\left(\sqrt{((A \cdot B + A \cdot C) - B \cdot C)^2 - 4 \cdot B^2 \cdot D^2 \cdot (A-C)^2} + A \cdot B + A \cdot C\right) - B \cdot C} - E = 0.00000$$

$$\frac{2 \cdot (n_1 - n_3)}{n_4 \cdot (n_1 - n_2 - n_3) - \sqrt{n_4^2 \cdot (n_1 - n_2 - n_3)^2 - 4 \cdot (n_1 - n_3)^2}} - E = 0.00000$$



Unit = 1.00000

A = 0.37096
B = 0.76745
C = 0.45054
D = 0.57387
E = -0.37755

n_1 = 2.69570
n_2 = 1.30302
n_3 = 2.21956
n_4 = 1.74257

$$\frac{2 \cdot B \cdot D \cdot (A-C)}{\left(\sqrt{((A \cdot B + A \cdot C) - B \cdot C)^2 - 4 \cdot B^2 \cdot D^2 \cdot (A-C)^2} + A \cdot B + A \cdot C\right) - B \cdot C} - E = 0.00000$$

$$\frac{2 \cdot (n_1 - n_3)}{n_4 \cdot (n_1 - n_2 - n_3) - \sqrt{n_4^2 \cdot (n_1 - n_2 - n_3)^2 - 4 \cdot (n_1 - n_3)^2}} - E = 0.00000$$

2SMT8R1

Given. $A := .86000$

$B := .77999$ $C := .43800$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$ $n_3 := \frac{1}{C}$

Descriptions.

$ef := \frac{C}{C + B}$ $bf := B \cdot ef$ $bc := \frac{ef \cdot A}{A - bf}$

$D := \sqrt{bc \cdot (1 - bc)}$ $D = 0.498865$

Definitions.

$D - \frac{\sqrt{A \cdot B \cdot C \cdot (A - C)}}{(A \cdot B + A \cdot C - B \cdot C)} = 0$

$D - \frac{\sqrt{n_2 \cdot (n_3 - n_1)}}{n_2 - n_1 + n_3} = 0$

Unit = 1.00000

A = 0.86000

B = 0.77999

C = 0.43800

D = 0.49887

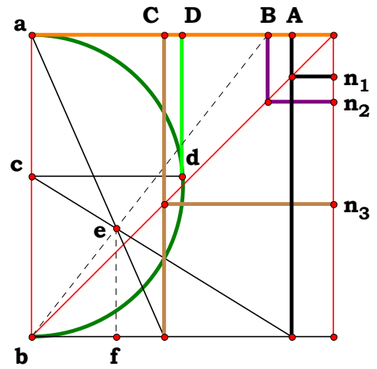
n_1 = 1.16279

n_2 = 1.28207

n_3 = 2.28311

$\frac{\sqrt{A \cdot B \cdot C \cdot (A-C)}}{(A \cdot B + A \cdot C) - B \cdot C} - D = 0.00000$

$\frac{\sqrt{n_2 \cdot (n_3 - n_1)}}{(n_2 + n_3) - n_1} - D = 0.00000$



Unit = 1.00000

A = 0.86000

B = 0.77999

C = 0.43800

D = 0.49887

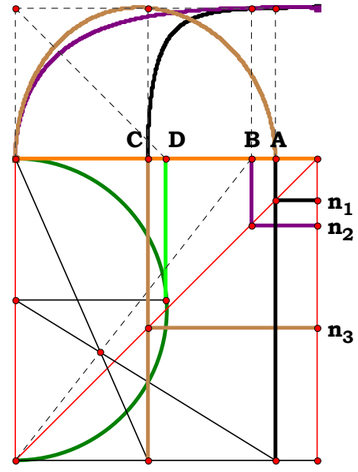
n_1 = 1.16279

n_2 = 1.28207

n_3 = 2.28311

$\frac{\sqrt{A \cdot B \cdot C \cdot (A-C)}}{(A \cdot B + A \cdot C) - B \cdot C} - D = 0.00000$

$\frac{\sqrt{n_2 \cdot (n_3 - n_1)}}{(n_2 + n_3) - n_1} - D = 0.00000$



2SMT8R2

Given. $A := .88090$

$B := .29095$ $C := .35440$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$ $n_3 := \frac{1}{C}$

Descriptions.

$ef := \frac{C}{C + B}$ $bf := B \cdot ef$

$bc := \frac{ef \cdot A}{A - bf}$ $cd := \sqrt{bc \cdot (1 - bc)}$

$D := \frac{cd}{bc}$ $D = 0.700484$

Definitions.

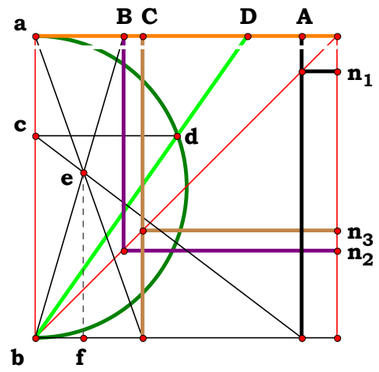
$$D - \frac{\sqrt{\left(A^2 \cdot B \cdot C - A \cdot B \cdot C^2\right)}}{A \cdot C} = 0$$

$$D - \frac{\sqrt{n_3 - n_1}}{\sqrt{n_2}} = 0$$

Unit = 1.00000
A = 0.88090
B = 0.29095
C = 0.35440
D = 0.70048
n_1 = 1.13520
n_2 = 3.43705
n_3 = 2.82165

$\frac{\sqrt{A^2 \cdot B \cdot C - A \cdot B \cdot C^2}}{A \cdot C} - D = 0.00000$

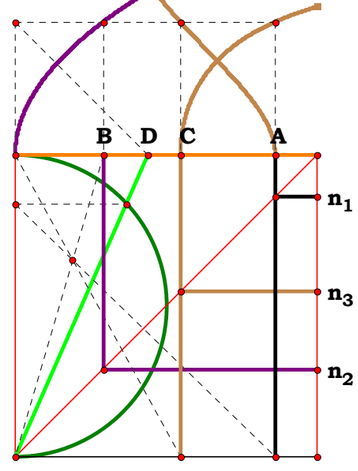
$\frac{\sqrt{n_3 - n_1}}{\sqrt{n_2}} - D = 0.00000$



Unit = 1.00000
A = 0.86000
B = 0.29095
C = 0.54667
D = 0.44034
n_1 = 1.16279
n_2 = 3.43705
n_3 = 1.82924

$\frac{\sqrt{A^2 \cdot B \cdot C - A \cdot B \cdot C^2}}{A \cdot C} - D = 0.00000$

$\frac{\sqrt{n_3 - n_1}}{\sqrt{n_2}} - D = 0.00000$



2SMT8R4

Given.

$A := .78058$ $B := .88030$

$C := .34604$ $D := .58223$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$ $n_3 := \frac{1}{C}$ $n_4 := \frac{1}{D}$

Descriptions.

$fg := \frac{D}{C + D}$ $bg := fg \cdot C$ $bc := \frac{fg \cdot A}{A - bg}$

$bB := \sqrt{1 + B^2}$ $bd := \frac{1}{bB}$ $de := \frac{bd}{bB}$

$be := B \cdot de$ $E := \frac{be \cdot bc}{bc - de}$ $E = 1.410954$

Definitions.

$$E - \frac{A \cdot B \cdot D}{A \cdot B^2 \cdot D - A \cdot C + C \cdot D} = 0$$

$$E - \frac{n_2 \cdot n_3}{n_2{}^2 \cdot (n_1 - n_4) + n_3} = 0$$

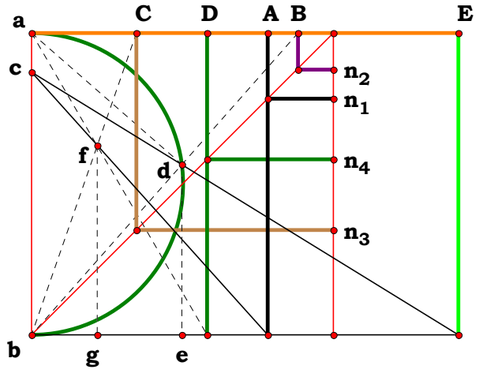
Unit = 1.00000

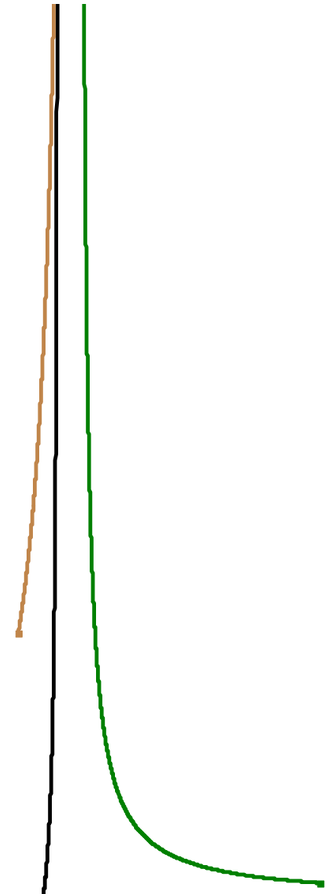
A = 0.78058
B = 0.88030
C = 0.34604
D = 0.58223
E = 1.41096

n_1 = 1.28109
n_2 = 1.13597
n_3 = 2.88981
n_4 = 1.71755

$\frac{A \cdot B \cdot D}{(A \cdot B^2 \cdot D - A \cdot C) + C \cdot D} - E = 0.00000$

$\frac{n_2 \cdot n_3}{n_2{}^2 \cdot (n_1 - n_4) + n_3} - E = 0.00000$





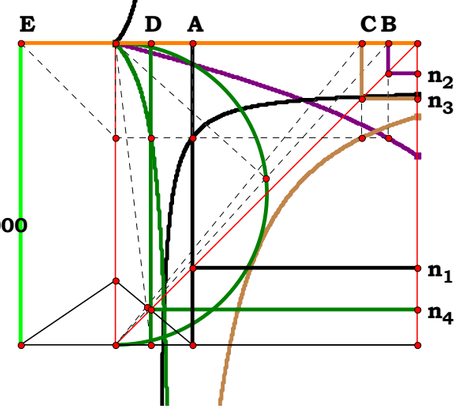
Unit = 1.00000

A = 0.25393
B = 0.90120
C = 0.81418
D = 0.11827
E = -0.31446

n_1 = 3.93817
n_2 = 1.10963
n_3 = 1.22822
n_4 = 8.45558

$\frac{A \cdot B \cdot D}{(A \cdot B^2 \cdot D - A \cdot C) + C \cdot D} - E = 0.00000$

$\frac{n_2 \cdot n_3}{n_2{}^2 \cdot (n_1 - n_4) + n_3} - E = 0.00000$



2SMT8R5

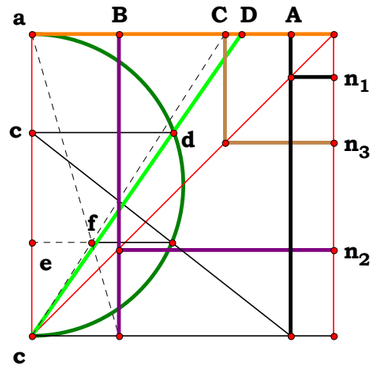
Unit = 1.00000

A = 0.85582
B = 0.28677
C = 0.63863
D = 0.69518

n_1 = 1.16847
n_2 = 3.48715
n_3 = 1.56585

$\frac{\sqrt{A \cdot B \cdot (A \cdot C - \sqrt{B \cdot C})}}{A \cdot B}$ -D = 0.00000

$\frac{n_2 \cdot \sqrt{\sqrt{n_2 \cdot n_3} - n_1 \cdot n_3}}{(n_2 \cdot n_3)^{\frac{3}{4}}}$ -D = 0.00000



Given.

$A := .85582$ $B := .28677$ $C := .63863$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$ $n_3 := \frac{1}{C}$

Descriptions.

$be := \frac{B}{B + C}$ $ef := \sqrt{be \cdot (1 - be)}$

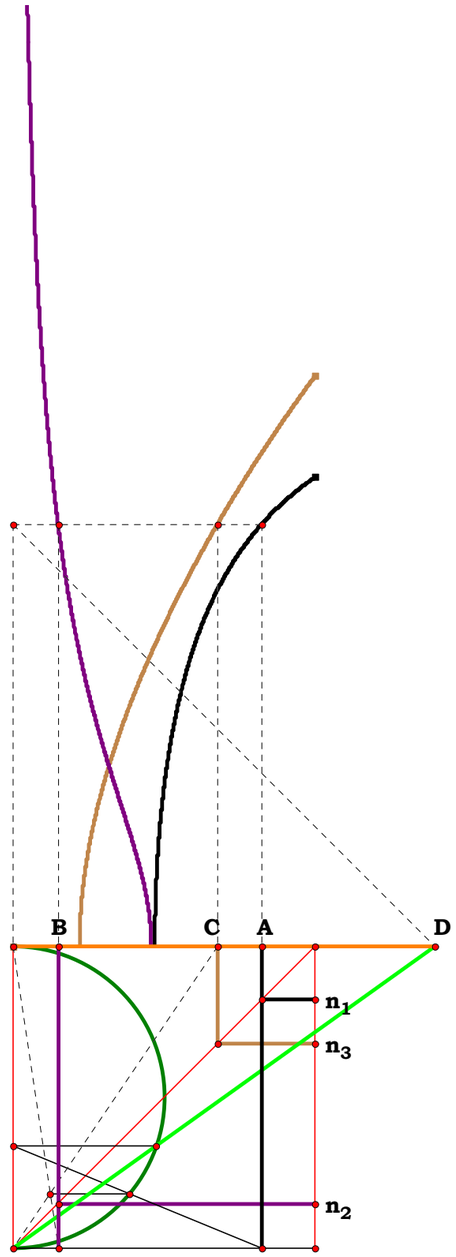
$bc := \frac{be \cdot A}{A - ef}$ $cd := \sqrt{bc \cdot (1 - bc)}$ $D := \frac{cd}{bc}$

D = 0.69517

Definitions.

$D - \frac{\sqrt{A \cdot B \cdot (A \cdot C - \sqrt{B \cdot C})}}{A \cdot B} = 0$

$D - \frac{n_2 \cdot \sqrt{\left(\sqrt{n_2 \cdot n_3} - n_1 \cdot n_3\right)}}{(n_2 \cdot n_3)^{\frac{3}{4}}} = 0$



Unit = 1.00000

A = 0.82238
B = 0.14883
C = 0.67625
D = 1.39704

n_1 = 1.21598
n_2 = 6.71896
n_3 = 1.47874

$\frac{\sqrt{A \cdot B \cdot (A \cdot C - \sqrt{B \cdot C})}}{A \cdot B}$ -D = 0.00000

$\frac{n_2 \cdot \sqrt{\sqrt{n_2 \cdot n_3} - n_1 \cdot n_3}}{(n_2 \cdot n_3)^{\frac{3}{4}}}$ -D = 0.00000

2SMT8R7

Given. $A := .84746$

$B := .74237$ $C := .60519$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$ $n_3 := \frac{1}{C}$

Descriptions.

$bB := \sqrt{1 + B^2}$ $bd := \frac{1}{bB}$ $de := \frac{bd}{bB}$

$be := B \cdot de$ $bc := \frac{de \cdot A}{A - be}$ $cf := C \cdot (1 - bc)$

$D := \frac{cf}{bc}$ $D = -0.196615$

Definitions.

$$D - \frac{B \cdot C \cdot (A \cdot B - 1)}{A} = 0$$

$$D - \frac{1 - n_1 \cdot n_2}{n_2^{\,2} \cdot n_3} = 0$$

Unit = 1.00000

A = 0.84746

B = 0.74237

C = 0.60519

D = -0.19661

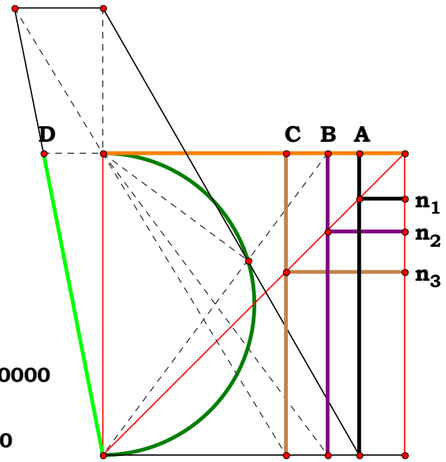
n_1 = 1.17999

n_2 = 1.34704

n_3 = 1.65237

$\frac{B \cdot C \cdot (A \cdot B - 1)}{A}$ -D = 0.00000

$\frac{1 - n_1 \cdot n_2}{n_2^{\,2} \cdot n_3}$ -D = 0.00000



A = 0.86000

B = 0.76745

C = 0.67625

D = -0.20518

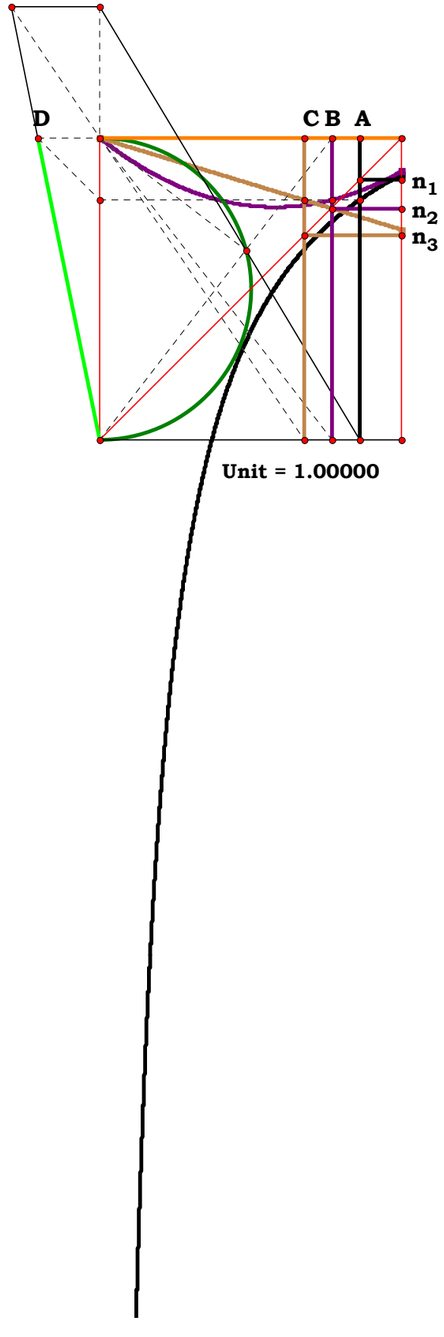
n_1 = 1.16279

n_2 = 1.30302

n_3 = 1.47874

$\frac{B \cdot C \cdot (A \cdot B - 1)}{A}$ -D = 0.00000

$\frac{1 - n_1 \cdot n_2}{n_2^{\,2} \cdot n_3}$ -D = 0.00000



2SMT8R8

Given. $A := .29990$

$B := .79253$ $C := .45054$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$ $n_3 := \frac{1}{C}$

Descriptions.

$bc := \frac{C}{B + C}$ $bA := \sqrt{1 + A^2}$ $bd := \frac{1}{bA}$

$de := \frac{bd}{bA}$ $be := A \cdot de$ $D := \frac{be \cdot bc}{bc - de}$

$D = -0.179675$

Definitions.

$$D - \frac{A \cdot C}{A^2 \cdot C - B} = 0$$

$$D - \frac{n_1 \cdot n_2}{n_2 - n_1^2 \cdot n_3} = 0$$

Unit = 1.00000

A = 0.29990

B = 0.79253

C = 0.45054

D = -0.17968

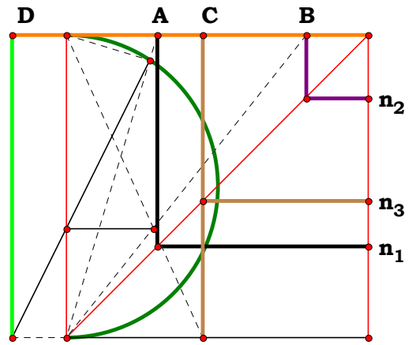
n_1 = 3.33441

n_2 = 1.26179

n_3 = 2.21956

$\frac{A \cdot C}{A^2 \cdot C - B} - D = 0.00000$

$\frac{n_1 \cdot n_2}{n_2 - n_1^2 \cdot n_3} - D = 0.00000$



A = 0.88926

B = 0.18645

C = 0.72641

D = 1.66495

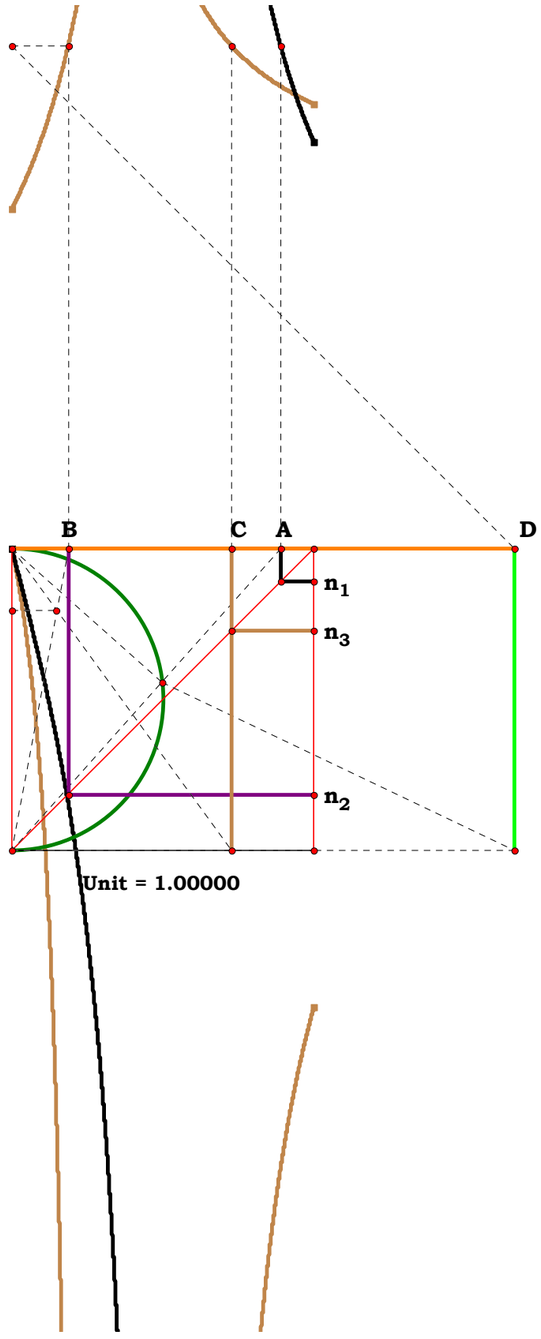
n_1 = 1.12453

n_2 = 5.36334

n_3 = 1.37664

$\frac{A \cdot C}{A^2 \cdot C - B} - D = 0.00000$

$\frac{n_1 \cdot n_2}{n_2 - n_1^2 \cdot n_3} - D = 0.00000$



2SMT8R9

Given. $A := .78476$

$B := .88866$ $C := .59265$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$ $n_3 := \frac{1}{C}$

Descriptions.

$bA := \sqrt{1 + A^2}$ $bd := \frac{1}{bA}$ $de := \frac{bd}{bA}$

$be := A \cdot de$ $bc := \frac{de \cdot B}{B - be}$ $D := \frac{C}{bc}$

$D = 0.434274$

Definitions.

$$D - \frac{C \cdot \left(A^2 \cdot B - A + B\right)}{B} = 0$$

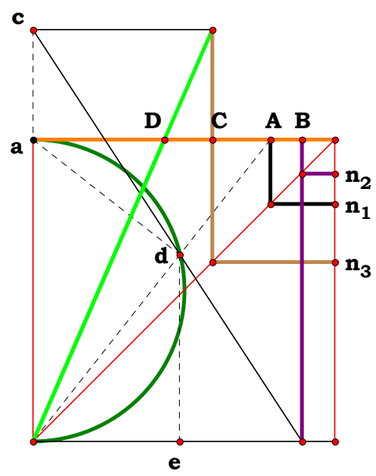
$$D - \frac{\left(n_1{}^2 - n_2 \cdot n_1 + 1\right)}{n_1{}^2 \cdot n_3} = 0$$

Unit = 1.00000
A = 0.78476
B = 0.88866
C = 0.59265
D = 0.43428

n_1 = 1.27427
n_2 = 1.12529
n_3 = 1.68733

$\frac{C \cdot ((A^2 \cdot B - A) + B)}{B}$ -D = 0.00000

$\frac{(n_1{}^2 - n_1 \cdot n_2) + 1}{n_1{}^2 \cdot n_3}$ -D = 0.00000

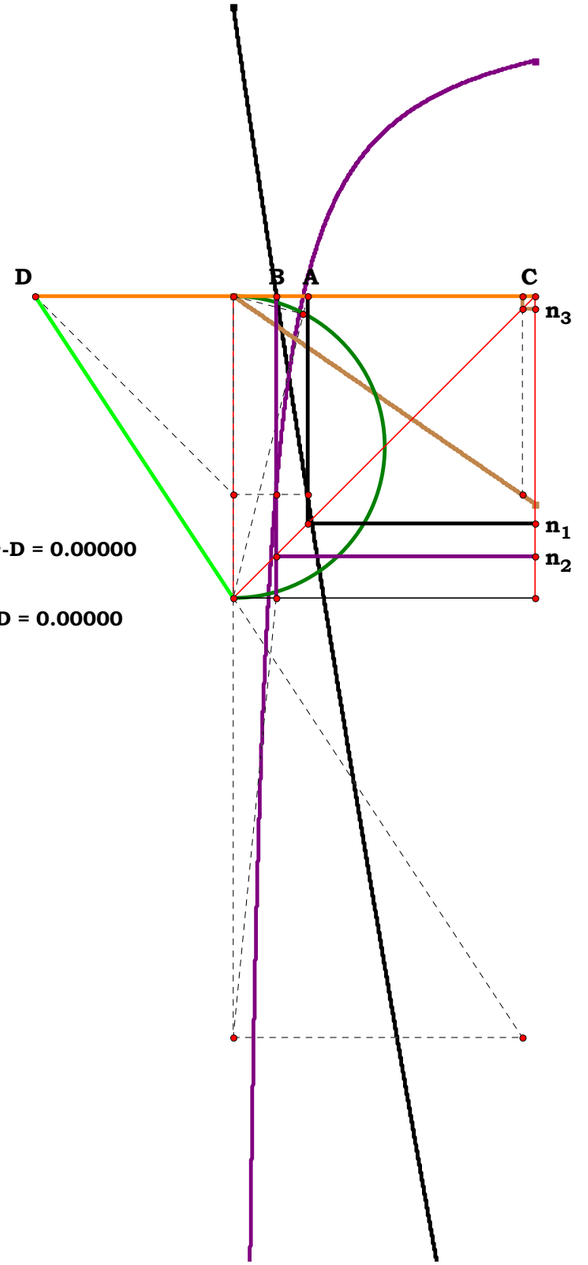


Unit = 1.00000
A = 0.24557
B = 0.14047
C = 0.95630
D = -0.65777

n_1 = 4.07223
n_2 = 7.11881
n_3 = 1.04570

$\frac{C \cdot ((A^2 \cdot B - A) + B)}{B}$ -D = 0.00000

$\frac{(n_1{}^2 - n_1 \cdot n_2) + 1}{n_1{}^2 \cdot n_3}$ -D = 0.00000



2SMT8R10

Given. $A := .65101$

$B := .51666$ $C := .75567$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$ $n_3 := \frac{1}{C}$

Descriptions.

$bA := \sqrt{1 + A^2}$ $be := \frac{1}{bA}$ $ef := \frac{be}{bA}$

$bh := B \cdot (1 - ef)$ $bc := \frac{ef \cdot C}{C - bh}$ $cd := \sqrt{bc \cdot (1 - bc)}$

$D := \frac{cd}{bc}$ $D = 0.366125$

Definitions.

$$D - \frac{\sqrt{A^2 \cdot C \cdot (C - B)}}{C} = 0$$

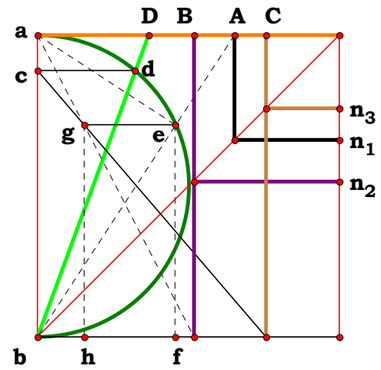
$$D - \frac{\sqrt{n_2 - n_3}}{n_1 \cdot \sqrt{n_2}} = 0$$

Unit = 1.00000
A = 0.65101
B = 0.51666
C = 0.75567
D = 0.36612

n_1 = 1.53608
n_2 = 1.93552
n_3 = 1.32334

$\frac{\sqrt{A^2 \cdot C \cdot (C-B)}}{C}$-D = 0.00000

$\frac{\sqrt{n_2 - n_3}}{n_1 \cdot \sqrt{n_2}}$-D = 0.00000

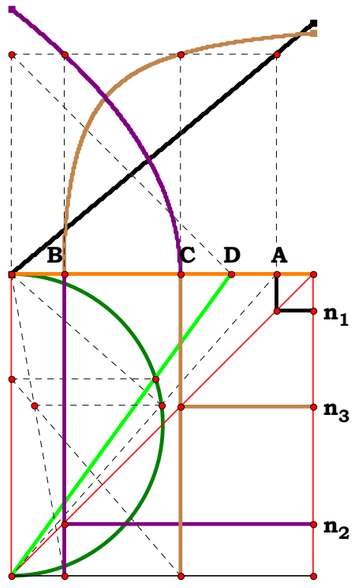


Unit = 1.00000
A = 0.87672
B = 0.17391
C = 0.55921
D = 0.72773

n_1 = 1.14061
n_2 = 5.75005
n_3 = 1.78822

$\frac{\sqrt{A^2 \cdot C \cdot (C-B)}}{C}$-D = 0.00000

$\frac{\sqrt{n_2 - n_3}}{n_1 \cdot \sqrt{n_2}}$-D = 0.00000



2SMT8R11

Given.

$A := .76804$ $B := .20735$

$C := .55503$ $D := .85392$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$ $n_3 := \frac{1}{C}$ $n_4 := \frac{1}{D}$

Descriptions.

$bA := \sqrt{1 + A^2}$ $bd := \frac{1}{bA}$ $de := \frac{bd}{bA}$

$n_{2E} := A \cdot de$ $bg := B \cdot (1 - de)$ $bc := \frac{de \cdot C}{C - bg}$

$ch := D \cdot (1 - bc)$ $E := \frac{ch}{bc}$ $E = 0.315535$

Definitions.

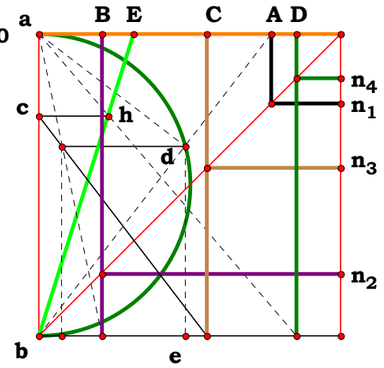
$$E - \frac{A^2 \cdot D \cdot (C - B)}{C} = 0$$

$$E - \frac{(n_2 - n_3)}{n_1^2 \cdot n_2 \cdot n_4} = 0$$

Unit = 1.00000

A = 0.76804
B = 0.20735
C = 0.55503
D = 0.85392
E = 0.31554

n_1 = 1.30201
n_2 = 4.82276
n_3 = 1.80169
n_4 = 1.17108



$\frac{A^2 \cdot D \cdot (C-B)}{C}$-E = 0.00000

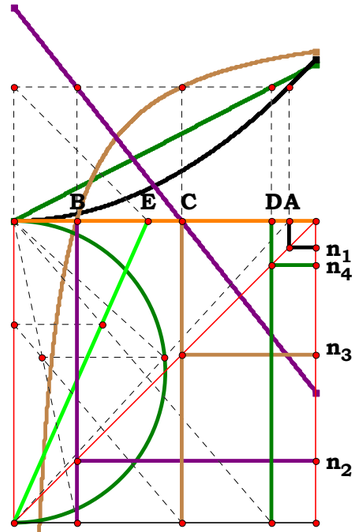
$\frac{n_2 - n_3}{n_1^2 \cdot n_2 \cdot n_4}$-E = 0.00000

A = 0.91016
B = 0.20735
C = 0.55503
D = 0.85392
E = 0.44311

n_1 = 1.09871
n_2 = 4.82276
n_3 = 1.80169
n_4 = 1.17108

$\frac{A^2 \cdot D \cdot (C-B)}{C}$-E = 0.00000

$\frac{n_2 - n_3}{n_1^2 \cdot n_2 \cdot n_4}$-E = 0.00000



Unit = 1.00000

2SMT8R12

Given.

$A := .81402$ $B := .65877$

$C := .89360$ $D := .51953$

$n_1 := \frac{1}{A}$ $n_2 := \frac{1}{B}$ $n_3 := \frac{1}{C}$ $n_4 := \frac{1}{D}$

Descriptions.

$bA := \sqrt{1 + A^2}$ $be := \frac{1}{bA}$ $bd := \frac{be}{bA}$

$bh := B \cdot (1 - bd)$ $bc := \frac{bd \cdot C}{C - bh}$

$E := \frac{D}{bc}$ $E = 0.609997$

Definitions.

$$E - \frac{D \cdot \left[C - A^2 \cdot (B - C)\right]}{C} = 0$$

$$E - \frac{\left(n_2 - n_3\right) + n_1{}^2 \cdot n_2}{n_1{}^2 \cdot n_2 \cdot n_4} = 0$$

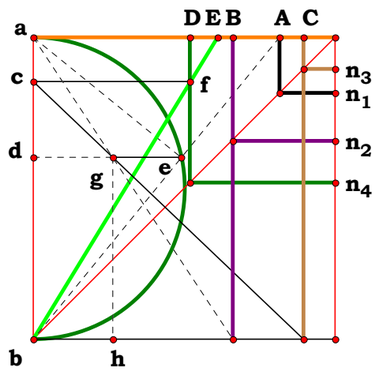
Unit = 1.00000

A = 0.81402
B = 0.65877
C = 0.89360
D = 0.51953
E = 0.61000

$n_1 = 1.22847$
$n_2 = 1.51798$
$n_3 = 1.11907$
$n_4 = 1.92482$

$\frac{D \cdot (C - A^2 \cdot (B - C))}{C} - E = 0.00000$

$\frac{(n_2 - n_3) + n_1{}^2 \cdot n_2}{n_1{}^2 \cdot n_2 \cdot n_4} - E = 0.00000$

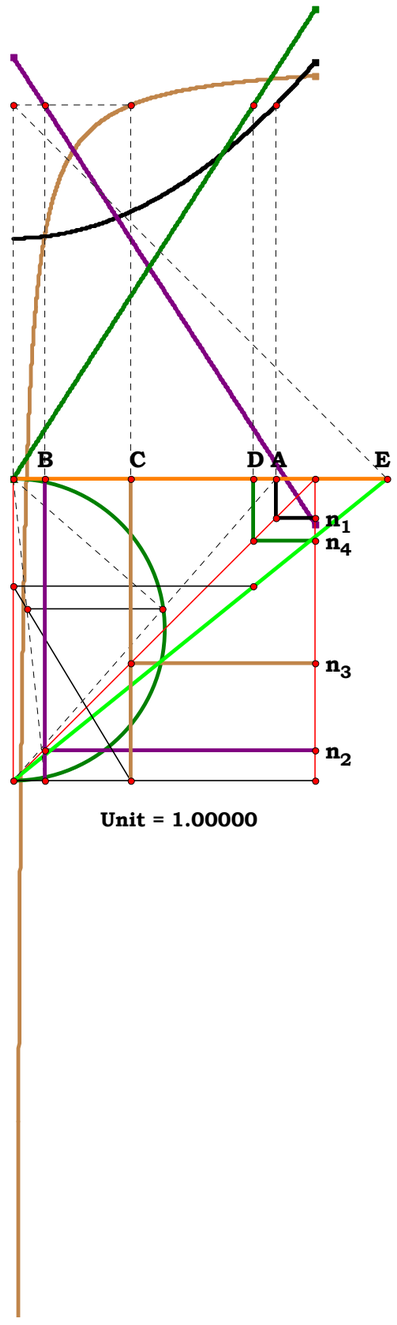


A = 0.86836
B = 0.10285
C = 0.38784
D = 0.79540
E = 1.23611

$n_1 = 1.15160$
$n_2 = 9.72247$
$n_3 = 2.57837$
$n_4 = 1.25723$

$\frac{D \cdot (C - A^2 \cdot (B - C))}{C} - E = 0.00000$

$\frac{(n_2 - n_3) + n_1{}^2 \cdot n_2}{n_1{}^2 \cdot n_2 \cdot n_4} - E = 0.00000$



Unit = 1.00000